

**Report 11344**  
**30 November 1998**

**Earth Observing System (EOS)**  
**Advanced Microwave Sounding Unit-A1**  
**(EOS/AMSU-A)**  
**EOS Software Test Report**

**Contract No: NAS5-32314**  
**CDRL 217**

**Submitted to:**

**National Aeronautics and Space Administration**  
**Goddard Space Flight Center**  
**Greenbelt, Maryland 20771**

**Submitted by:**

**Aerojet**  
**1100 West Hollyvale Street**  
**Azusa, California 91702**

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## SECTION 1

### INTRODUCTION

#### 1.1 IDENTIFICATION

This is the *Software Test Report* for the software to be used in the Earth Observing System (EOS) Advanced Microwave Sounding Unit-A1 (AMSU-A1) instrument. This document is submitted in response to Contract NAS5-32314 as CDRL 217, Software Test Report. Refer to Figure 1 for the software documentation tree.

#### 1.2 SCOPE

This document describes the results of the Formal Qualification Test (FQT) / Demonstration conducted on 10 November 1998 for the EOS/AMSU-A1 instrument.

#### 1.3 PURPOSE AND OBJECTIVES

The purpose of the *Software Test Report* is to report on results of the functional, performance, and interface tests of the software.

#### 1.4 DOCUMENT STATUS AND SCHEDULE

This is the final submittal of the EOS/AMSU-A *Software Test Report*. This test report will constitute the basis for final acceptance of the EOS/AMSU software.

#### 1.5 DOCUMENT ORGANIZATION

The EOS/AMSU-A Software Documentation Tree is as shown in Figure 1.

Document	Doc. No.	CDRL No.
<b>Software Management Plan</b>	<b>10339</b>	<b>008</b>
Acquisition Activities Plan	10341	508
Software Standards and Procedures	---	402
Software Assurance Plan	10428	309
Configuration Management Plan	9803	005
<b>Software Product Specifications</b>	<b>---</b>	<b>306</b>
Software Concept Document	10432	306-1a
Software Requirements Specification	10457	306-2a
Software Architectural Design	10464	306-3a
Software Detailed Design Document	10463	306-5a
Firmware Support Manual	10466	306-7
Version Description Document	10467	306-8a
User's Guide	10443	306-10a
<b>Firmware Product Specification</b>	<b>---</b>	<b>306</b>
Firmware Concept Document	10436	306-1b
Firmware Requirements	10458	306-2b
Firmware Architectural Design	10460	306-3b
Firmware Detail Design Document	10387	306-5b
Firmware Version Description	10976	306-8b
<b>Software/Firmware Test Plan</b>	<b>10369/10352</b>	<b>033</b>
Software Test Procedures	AE-26602	415
<i>Software Test Reports</i>	10975/11344	217
Firmware Test Procedures	AE-26600	415
Firmware Test Reports	10974	217

Figure 1. EOS/AMSU-A Software Documentation Tree

## **SECTION 2**

### **RELATED DOCUMENTATION**

#### **2.1 PARENT DOCUMENTS**

The software test plan is the parent document to this test report as indicated in Figure 1.

#### **2.2 APPLICABLE DOCUMENTS**

The following documents are referenced or applicable to this test report. Unless otherwise specified, the latest issue is in effect.

##### **NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

NASA-DID-A200	Test Procedures Data Item Description
NASA-DID-R009	Minimum Contents for Test Report
GSFC 422-10-04	Earth Observing System (EOS) Instrument Project Software Acquisition Management Plan
422-11-12-01	General Interface Requirements Document (GIRD)

(Copies of NASA documents should be obtained from the NASA Scientific and Technical Information Facility, P.O. Box 8757, BWI Airport, Baltimore, MD 21240.)

##### **AEROJET DOCUMENTS**

Report 10369	EOS/AMSU-A Software Test Plan
AE-26602	Earth Observing System/Advanced Microwave Sounding Unit-A (EOS/AMSU-A) Special Test Equipment Software Test Procedures

#### **2.3 INFORMATION DOCUMENTS**

Report 10345	EOS/AMSU-A Project Plan, Including Project Organization Chart, WBS Diagram, and Task Description
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(Copies of Aerojet documents should be obtained from Aerojet, CAGE 70143, P.O. Box 296, Azusa, California 91702-0296.)

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## SECTION 3

### TEST IDENTIFICATION AND PREPARATION

#### 3.1 FORMAL QUALIFICATION TEST (FQT)

These tests were the Formal Qualification Test (FQT) of the EOS/AMSU-A1 software.

#### 3.2 SOFTWARE PRODUCTS UNDER TEST

The software products tested were:

CSCI #	Software Description
N5 Initial Release	EOS/AMSU-A1 Special Test Equipment Software

#### 3.3 DATE OF TEST

The test was conducted on 10 November 1998.

#### 3.4 TEST TEAM MEMBERS

The tests were conducted by Al Cisneros, EOS/AMSU-A Software Engineer. Robert Schwantje is the EOS/AMSU-A Software Lead Engineer and the advisor for this test.

#### 3.5 TEST WITNESSES

The tests were witnessed by:

John Allen

Aerojet

#### 3.6 ANOMALOUS CONDITIONS ENCOUNTERED AND RECOVERY PROCEDURES ATTEMPTED

In Test Cases 1 through 4, the A1 Raw Input Data Stream Values for byte 19 were other than expected. Step 7b. in each of these cases prints A1 Raw Input Data Stream Values which are then compared to the expected values shown in Table III of the Software Test Procedures (AE-26602C). In each case the print out shows byte 19's value as 154. Table III shows byte 19 as 152. This was due to a hardware change which relocated the PLO Redundancy status bit, thus changing the expected value to 154. This change was made after Table III was first generated. Table III will be updated to reflect this change.

In Test Case 1 step 4a, the value displayed for Reflector Position/Scene 12 2<sup>nd</sup> look was 32377. It should have been  $16189 \pm 8$ . Data value appears correctly in FULL prints. This was due to a shifting problem after obtaining Reflector Position data from the Science data section of the AMSU-A data stream. Reflector data needs to be shifted right 14 bits to obtain the correct value as done for FULL prints, but in this case was only shifted right 13 bits. Thus the value appeared twice the value it should have been. The software has now been corrected and Reflector Position data appears correctly. Testing then continued with no further anomalies.

## SECTION 4

### TEST STATUS AND SUMMARY OF RESULTS

#### 4.1 CSCI N5

The tests demonstrated that the Special Test Equipment Software, CSCI N5 met all the requirements specified in the NASA General Interface Requirements Document (GIRD). The functionality of the following requirements was demonstrated. The tests demonstrated that the Instrument Control CSCI N5 met all the requirements as specified in the Software Requirements Specification, Aerojet Report 10457.

GIRD Paragraph	Requirement
9.2.2(2)	Command sending and verification
9.2.2(2)	Analyze data from AMSU-A
9.2.2(3)	"Real-time" data analysis
9.2.2(3)	Print out results
9.2.2(3)	Continuous disk recording
9.2.2(4)	Decommutate any word or channel test set and display with ID
9.2.2(5)	I/F with blackbody targets
9.2.2(6)	Test voltages and signals
9.2.2(8)	Include self-test

#### 4.2 ACCEPTANCE CRITERIA

The Software Acceptance Review (SWAR), together with this test report, will be the basis for the acceptance of the Software CSCI N5 at the SWAR.

#### 4.3 TEST DATA SHEETS AND DATA PRINTOUTS

Appendix A contains copies of the Test Data Sheets obtained during the FQT. Appendix B contains copies of Data Printouts from the AMSU-A1 FQT.



**APPENDIX A**

**TEST DATA SHEETS**

The following pages contain copies of the Test Data Sheets completed during the AMSU-A1 FQT.

TEST DATA SHEET 1  
TAPE IDENTIFICATION  
(Paragraph 4.1)

Report 11344  
30 Nov 98

ENTER TAPE LOADED:

E1.EXE, ~~xxx~~ e 40

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Circle Software being validated: (A13) A2

Customer Representative  
(Flight Hardware Only)

Engineer

Al Cisneros

Quality Assurance

M. Santos

Shop Order No.: 598513    Operation: 8710

Date: 10 November, 1998

**TEST DATA SHEET 2**  
**LOW-RATE SCIENCE DATA ACQUISITION**  
**FULL SCAN MODE**  
(Paragraph 4.3)

Test	Expected Results Table Used	Fail	Pass
Case 1	III. A1 Raw Input Data Stream Values	(1)	
	IV. A2 Raw Input Data Stream Values		N/A
	V. A1 Temperature Sensor Limits		✓
	VI. A2 Temperature Sensor Limits		N/A
	VII. A1 Engineering Data		✓
	VIII. A2 Engineering Data		N/A
	XI. Reflector Positions A1-1		✓
	XII. Reflector Positions A1-2		✓
	XIII. Reflector Positions A2		N/A

NOTE: Place "N/A" for those tests not being tested.

NOTE: If discrepancy is found between the actual results and the expected results, attach the printout with the discrepancy circled or use comments area below to describe discrepancy.

COMMENTS:

- ① Table III Full Scale Expected value 152 bitByte 19 SA 11/10/98  
Recorded value 154
- ② Step 4.3-4a Expected value 16189 ± 8 Actual value 32377 SA 11/10/98

Circle Software being validated: (A1) A2

Customer Representative \_\_\_\_\_  
(Flight Hardware Only)

Engineer

Al Cisneros  
Al Cisneros

Quality Assurance

M. Santos  
M. Santos

Shop Order No.: 598513 Operation: 8710

Date: 10 November, 1998

**TEST DATA SHEET 3**  
**LOW-RATE SCIENCE DATA ACQUISITION**  
**WARM CAL MODE**  
(Paragraph 4.4)

Test	Expected Results Table Used	Fail	Pass
Case 2	III. A1 Raw Input Data Stream Values	①	N/A
	IV. A2 Raw Input Data Stream Values		
	V. A1 Temperature Sensor Limits		N/A
	VI. A2 Temperature Sensor Limits		
	VII. A1 Engineering Data		N/A
	VIII. A2 Engineering Data		
	XI. Reflector Positions A1-1		N/A
	XII. Reflector Positions A1-2		
	XIII. Reflector Positions A2		N/A

NOTE: Place "N/A" for those tests not being tested.

NOTE: If discrepancy is found between the actual results and the expected results, attach the printout with the discrepancy circled or use comments area below to describe discrepancy.

COMMENTS:

① Table III Warm Scan Expected value 152 Byte 19. Recorded value 154. ~~9/24~~ 11/10/98.

Circle Software being validated: (A1) A2

Customer Representative \_\_\_\_\_  
(Flight Hardware Only)

Engineer

*Al Cisneros*  
Al Cisneros

Quality Assurance

*M. Santos*  
M. Santos

Shop Order No.: 598513 Operation: 8710

Date: 10 November, 1998

**TEST DATA SHEET 4**  
**LOW-RATE SCIENCE DATA ACQUISITION**  
**COLD CAL MODE**  
(Paragraph 4.5)

Test	Expected Results Table Used	Fail	Pass
Case 3	III. A1 Raw Input Data Stream Values	①	
	IV. A2 Raw Input Data Stream Values		N/A
	V. A1 Temperature Sensor Limits		✓
	VI. A2 Temperature Sensor Limits		N/A
	VII. A1 Engineering Data		✓
	VIII. A2 Engineering Data		N/A
	XI. Reflector Positions A1-1		✓
	XII. Reflector Positions A1-2		✓
	XIII. Reflector Positions A2		N/A

NOTE: Place "N/A" for those tests not being tested.

NOTE: If discrepancy is found between the actual results and the expected results, attach the printout with the discrepancy circled or use comments area below to describe discrepancy.

COMMENTS:

Results of Cold Cal Positions 1 through 4 tests  
 ① Table III Cold Scan Expected value 152 Byte 19. Recorded value  
 154. JAA 11/10/98

Circle Software being validated: (A1) A2

Customer Representative  
(Flight Hardware Only)

Engineer

*Al Cisneros*  
Al Cisneros

Quality Assurance

*M. Santos*  
M. Santos

Shop Order No.: 598513 Operation: 8710

Date: 10 November, 1998

**TEST DATA SHEET 5**  
**LOW-RATE SCIENCE DATA ACQUISITION**  
**NADIR MODE**  
**(Paragraph 4.6)**

Test	Expected Results Table Used	Fail	Pass
Case 4	III. A1 Raw Input Data Stream Values	①	
	IV. A2 Raw Input Data Stream Values		N/A
	V. A1 Temperature Sensor Limits		✓
	VI. A2 Temperature Sensor Limits		N/A
	VII. A1 Engineering Data		✓
	VIII. A2 Engineering Data		N/A
	XI. Reflector Positions A1-1		✓
	XII. Reflector Positions A1-2		✓
	XIII. Reflector Positions A2		N/A

NOTE: Place "N/A" for those tests not being tested.

NOTE: If discrepancy is found between the actual results and the expected results, attach the printout with the discrepancy circled or use comments area below to describe discrepancy.

COMMENTS:

① Table III Nadir Expected value 152 Byte 19. Recorded value 154. ~~24~~ 11/10/98

Circle Software being validated: (A1) A2

Customer Representative  
(Flight Hardware Only)

Engineer

Al Cisneros


Quality Assurance

M. Santos

Shop Order No.: 598513 Operation: 8710

Date: 10 November, 1998

TEST DATA SHEET 6  
UNPOWERED TEMPERATURES  
(Paragraph 4.7)

Test	Expected Results Table Used	Fail	Pass
Case 5	IX. A1 Passive Analog Temperature Data X. A2 Passive Analog Temperature Data		 N/A

NOTE: Place "N/A" for those tests not being tested.

NOTE: If discrepancy is found between the actual results and the expected results, attach the printout with the discrepancy circled or use comments area below to describe discrepancy.

COMMENTS:

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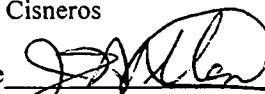
Circle Software being validated: (A1) A2

Customer Representative \_\_\_\_\_  
(Flight Hardware Only)

Engineer

  
Al Cisneros

Quality Assurance

  
M. Santos

Shop Order No.: 598513 Operation: 8710

Date: 10 November, 1998

TEST DATA SHEET 7  
ERROR LIMITS  
(Paragraph 4.8)

Test	Expected Results Table Used	Fail	Pass
Case 6	NONE	N/A	N/A

NOTE: Place "N/A" for those tests not being tested.

NOTE: If discrepancy is found between the actual results and the expected results, attach the printout with the discrepancy circled or use comments area below to describe discrepancy.

COMMENTS:

Could limit values be changed? *Yes*  
Were errors messages received as outlined? *Yes*

Circle Software being validated: (A1) A2

Customer Representative \_\_\_\_\_  
(Flight Hardware Only)

Engineer

*Al Cisneros*  
Al Cisneros

Quality Assurance

*M. Santos*  
M. Santos

Shop Order No.: 598513 Operation: 8710

Date: *10 November* 1998



TEST DATA SHEET 8  
PLAYBACK  
(Paragraph 4.9)

Test	Expected Results Table Used	Fail	Pass
Case 7	V. A1 Temperature Sensor Limits VI. A2 Temperature Sensor Limits		✓ N/A

NOTE: Place "N/A" for those tests not being tested.

NOTE: If discrepancy is found between the actual results and the expected results, attach the printout with the discrepancy circled or use comments area below to describe discrepancy.

COMMENTS:

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Circle Software being validated: (A1) A2

Customer Representative  
(Flight Hardware Only)

Engineer

Al Cisneros

Quality Assurance

M. Santos

Shop Order No.: 598513    Operation: 8710

Date: 10 November, 1998

**TEST DATA SHEET 9**  
**ENGINEERING DATA FROM TAPE**  
(Paragraph 4.10)

Test	Expected Results Table Used	Fail	Pass
Case 8	VII. A1 Engineering Data VIII. A2 Engineering Data		✓ N/A

NOTE: Place "N/A" for those tests not being tested.

NOTE: If discrepancy is found between the actual results and the expected results, attach the printout with the discrepancy circled or use comments area below to describe discrepancy.

COMMENTS:

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Circle Software being validated: (A1) A2

Customer Representative  
(Flight Hardware Only)

Engineer

*Al Cisneros*  
Al Cisneros

Quality Assurance

*M. Santos*  
M. Santos

Shop Order No.: 598513    Operation: 8710

Date: 10 November, 1998

TEST DATA SHEET 10  
NEAT/CTE  
(Paragraph 4.11)

Test	Expected Results Table Used	Fail	Pass
Case 9	V. A1 Temperature Sensor Limits VI. A2 Temperature Sensor Limits VII. A1 Engineering Data VIII. A2 Engineering Data		✓ N/A ✓ N/A

NOTE: Place "N/A" for those tests not being tested.

NOTE: If discrepancy is found between the actual results and the expected results, attach the printout with the discrepancy circled or use comments area below to describe discrepancy.

COMMENTS:

Did formal test 9.1 pass using tables <sup>V</sup> VI & <sup>VII</sup> VII, "Pre-test 9.1" and "Formal 9.1" printouts ? *Yes*  
*Data OK* → Did formal test 9.2 pass ? *Data needs to be analyzed for correctness, JAL 11/10/98*  
 Did formal test 9.3 pass using "Pre-test 9.3" and "Formal 9.3" printouts ? *Yes*  
*Reliability 11/1/98* Did formal test 9.4 pass using "Pre-test 9.4" and "Formal 9.4" printouts ? *Yes*

Circle Software being validated: (A1) A2

Customer Representative  
(Flight Hardware Only)

Engineer

*Al Cisneros*  
Al Cisneros

Quality Assurance

*M. Santos*  
M. Santos

Shop Order No.: 598513 Operation: 8710

Date: *10 November*, 1998

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**APPENDIX B**

**DATA PRINTOUTS FOR AMSU-A1**

The following pages contain copies of the data printouts obtained during the AMSU-A1 FQT.



4.3-7a

2/101

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	PACKET ID	00001001	572	WARM CAL SAMPLE 17	170124
2	PACKET LENGTH	00000010	576		166774
3	UNIT SERIAL NUMBER	00000010	578		1700138
4		10111111	580		1189063
5		00000000	582		1195041
6		00000000	584		2161875
7		00000010	586		167207
8		00000010	588		371426
10	REFLECTOR 1 POSITION	145219	590	REFLECTOR 1 POSITION	362386
11	REFLECTOR 2 POSITION	145219	592	REFLECTOR 2 POSITION	169309
12	REFL 1 POS 1	141697	594	REFL 1 POS 1	176000
13	REFL 2 POS 1	160946	596	REFL 2 POS 1	176000
14	WARM CAL SAMPLE 1	163308	598	WARM CAL SAMPLE 1	189048
16		117601	600		118116
18		117601	602		118116
20		117601	604		118116
22		117601	606		118116
24		117601	608		118116
26		117601	610		118116
28		117601	612		118116
30		117601	614		118116
32		117601	616		118116
34		117601	618		118116
36		117601	620		118116
38		117601	622		118116
40		117601	624		118116
42		117601	626		118116
44		117601	628		118116
46		117601	630		118116
48		117601	632		118116
50		117601	634		118116
52		117601	636		118116
54		117601	638		118116
56		117601	640		118116
58		117601	642		118116
60		117601	644		118116
62		117601	646		118116
64		117601	648		118116
66		117601	650		118116
68		117601	652		118116
70		117601	654		118116
72		117601	656		118116
74		117601	658		118116
76		117601	660		118116
78		117601	662		118116
80		117601	664		118116
82		117601	666		118116
84		117601	668		118116
86		117601	670		118116
88		117601	672		118116
90		117601	674		118116
92		117601	676		118116
94		117601	678		118116
96		117601	680		118116
98		117601	682		118116
100		117601	684		118116
102		117601	686		118116
104		117601	688		118116
106		117601	690		118116
108		117601	692		118116
110		117601	694		118116
112		117601	696		118116
114		117601	698		118116
116		117601	700		118116
118		117601	702		118116
120		117601	704		118116
122		117601	706		118116
124		117601	708		118116
126		117601	710		118116
128		117601	712		118116
130		117601	714		118116
132		117601	716		118116
134		117601	718		118116
136		117601	720		118116
138		117601	722		118116
140		117601	724		118116
142		117601	726		118116
144		117601	728		118116
146		117601	730		118116
148		117601	732		118116
150		117601	734		118116
152		117601	736		118116
154		117601	738		118116
156		117601	740		118116
158		117601	742		118116
160		117601	744		118116
162		117601	746		118116
164		117601	748		118116
166		117601	750		118116
168		117601	752		118116
170		117601	754		118116
172		117601	756		118116
174		117601	758		118116
176		117601	760		118116
178		117601	762		118116
180		117601	764		118116
182		117601	766		118116
184		117601	768		118116
186		117601	770		118116
188		117601	772		118116
190		117601	774		118116
192		117601	776		118116
194		117601	778		118116
196		117601	780		118116
198		117601	782		118116
200		117601	784		118116
202		117601	786		118116
204		117601	788		118116
206		117601	790		118116
208		117601	792		118116
210		117601	794		118116
212		117601	796		118116
214		117601	798		118116
216		117601	800		118116
218		117601	802		118116
220		117601	804		118116
222		117601	806		118116
224		117601	808		118116
226		117601	810		118116
228		117601	812		118116
230		117601	814		118116
232		117601	816		118116
234		117601	818		118116
236		117601	820		118116
238		117601	822		118116
240		117601	824		118116
242		117601	826		118116
244		117601	828		118116
246		117601	830		118116
248		117601	832		118116
250		117601	834		118116
252		117601	836		118116
254		117601	838		118116
256		117601	840		118116
258		117601	842		118116
260		117601	844		118116
262		117601	846		118116
264		117601	848		118116
266		117601	850		118116
268		117601	852		118116
270		117601	854		118116
272		117601	856		118116
274		117601	858		118116
276		117601	860		118116
278		117601	862		118116
280		117601	864		118116
282		117601	866		118116
284		117601	868		118116
286		117601	870		118116
288		117601	872		118116
290		117601	874		118116
292		117601	876		118116
294		117601	878		118116
296		117601	880		118116
298		117601	882		118116
300		117601	884		118116
302		117601	886		118116
304		117601	888		118116
306		117601	890		118116
308		117601	892		118116
310		117601	894		118116
312		117601	896		118116
314		117601	898		118116
316		117601	900		118116
318		117601	902		118116
320		117601	904		118116
322		117601	906		118116
324		117601	908		118116
326		117601	910		118116
328		117601	912		118116
330		117601	914		118116
332		117601	916		118116
334		117601	918		118116
336		117601	920		118116
338		117601	922		118116
340		117601	924		118116
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352		117601	936		118116
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356		117601	940		118116
358		117601	942		118116
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362		117601	946		118116
364		117601	948		118116
366		117601	950		118116
368		117601	952		118116
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376		117601	960		118116
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382		117601	966		118116
384		117601	968		118116
386		117601	970		118116
388		117601	972		118116
390		117601	974		118116
392		117601	976		118116
394		117601	978		118116
396		117601	980		118116
398		117601	982		118116
400		117601	984		118116
402		117601	986		118116
404		117601	988		118116
406		117601	990		118116
408		117601	992		118116
410		117601	994		118116
412		117601	996		118116
414		117601	998		118116
416		117601	1000		118116

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EOS	AL_03	E1.EXE;43	SCIENCE DATA	10-NOV-98	09:11:45	PAGE	2
ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE		
94	REFLECTOR 1 POSITION	672	78	CH	16031		
99	REFLECTOR 2 POSITION	674	90	CH	17011		
100	REFLECTOR 3 POSITION	676	1	CH	17600		
24	REFLECTOR 4 POSITION	678	2	CH	17700		
68	REFLECTOR 5 POSITION	680	3	CH	17900		
02	REFLECTOR 6 POSITION	682	4	CH	18050		
24	REFLECTOR 7 POSITION	684	5	CH	18150		
68	REFLECTOR 8 POSITION	686		CH	18250		
02	REFLECTOR 9 POSITION	688		CH	18350		
24	REFLECTOR 10 POSITION	690		CH	18450		
68	REFLECTOR 11 POSITION	692		CH	18550		
02	REFLECTOR 12 POSITION	694		CH	18650		
24	REFLECTOR 13 POSITION	696		CH	18750		
68	REFLECTOR 14 POSITION	698		CH	18850		
02	REFLECTOR 15 POSITION	700		CH	18950		
24	REFLECTOR 16 POSITION	702		CH	19050		
68	REFLECTOR 17 POSITION	704		CH	19150		
02	REFLECTOR 18 POSITION	706		CH	19250		
24	REFLECTOR 19 POSITION	708		CH	19350		
68	REFLECTOR 20 POSITION	710		CH	19450		
02	REFLECTOR 21 POSITION	712		CH	19550		
24	REFLECTOR 22 POSITION	714		CH	19650		
68	REFLECTOR 23 POSITION	716		CH	19750		
02	REFLECTOR 24 POSITION	718		CH	19850		
24	REFLECTOR 25 POSITION	720		CH	19950		
68	REFLECTOR 26 POSITION	722		CH	20050		
02	REFLECTOR 27 POSITION	724		CH	20150		
24	REFLECTOR 28 POSITION	726		CH	20250		
68	REFLECTOR 29 POSITION	728		CH	20350		
02	REFLECTOR 30 POSITION	730		CH	20450		
24	REFLECTOR 31 POSITION	732		CH	20550		
68	REFLECTOR 32 POSITION	734		CH	20650		
02	REFLECTOR 33 POSITION	736		CH	20750		
24	REFLECTOR 34 POSITION	738		CH	20850		
68	REFLECTOR 35 POSITION	740		CH	20950		
02	REFLECTOR 36 POSITION	742		CH	21050		
24	REFLECTOR 37 POSITION	744		CH	21150		
68	REFLECTOR 38 POSITION	746		CH	21250		
02	REFLECTOR 39 POSITION	748		CH	21350		
24	REFLECTOR 40 POSITION	750		CH	21450		
68	REFLECTOR 41 POSITION	752		CH	21550		
02	REFLECTOR 42 POSITION	754		CH	21650		
24	REFLECTOR 43 POSITION	756		CH	21750		
68	REFLECTOR 44 POSITION	758		CH	21850		
02	REFLECTOR 45 POSITION	760		CH	21950		
24	REFLECTOR 46 POSITION	762		CH	22050		
68	REFLECTOR 47 POSITION	764		CH	22150		
02	REFLECTOR 48 POSITION	766		CH	22250		
24	REFLECTOR 49 POSITION	768		CH	22350		
68	REFLECTOR 50 POSITION	770		CH	22450		
02	REFLECTOR 51 POSITION	772		CH	22550		
24	REFLECTOR 52 POSITION	774		CH	22650		
68	REFLECTOR 53 POSITION	776		CH	22750		
02	REFLECTOR 54 POSITION	778		CH	22850		
24	REFLECTOR 55 POSITION	780		CH	22950		
68	REFLECTOR 56 POSITION	782		CH	23050		
02	REFLECTOR 57 POSITION	784		CH	23150		
24	REFLECTOR 58 POSITION	786		CH	23250		
68	REFLECTOR 59 POSITION	788		CH	23350		
02	REFLECTOR 60 POSITION	790		CH	23450		
24	REFLECTOR 61 POSITION	792		CH	23550		
68	REFLECTOR 62 POSITION	794		CH	23650		
02	REFLECTOR 63 POSITION	796		CH	23750		
24	REFLECTOR 64 POSITION	798		CH	23850		
68	REFLECTOR 65 POSITION	800		CH	23950		
02	REFLECTOR 66 POSITION	802		CH	24050		
24	REFLECTOR 67 POSITION	804		CH	24150		
68	REFLECTOR 68 POSITION	806		CH	24250		
02	REFLECTOR 69 POSITION	808		CH	24350		
24	REFLECTOR 70 POSITION	810		CH	24450		
68	REFLECTOR 71 POSITION	812		CH	24550		
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24	REFLECTOR 73 POSITION	816		CH	24750		
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24	REFLECTOR 76 POSITION	822		CH	25050		
68	REFLECTOR 77 POSITION	824		CH	25150		
02	REFLECTOR 78 POSITION	826		CH	25250		
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68	REFLECTOR 80 POSITION	830		CH	25450		
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24	REFLECTOR 82 POSITION	834		CH	25650		
68	REFLECTOR 83 POSITION	836		CH	25750		
02	REFLECTOR 84 POSITION	838		CH	25850		
24	REFLECTOR 85 POSITION	840		CH	25950		
68	REFLECTOR 86 POSITION	842		CH	26050		
02	REFLECTOR 87 POSITION	844		CH	26150		
24	REFLECTOR 88 POSITION	846		CH	26250		
68	REFLECTOR 89 POSITION	848		CH	26350		
02	REFLECTOR 90 POSITION	850		CH	26450		
24	REFLECTOR 91 POSITION	852		CH	26550		
68	REFLECTOR 92 POSITION	854		CH	26650		
02	REFLECTOR 93 POSITION	856		CH	26750		
24	REFLECTOR 94 POSITION	858		CH	26850		
68	REFLECTOR 95 POSITION	860		CH	26950		
02	REFLECTOR 96 POSITION	862		CH	27050		
24	REFLECTOR 97 POSITION	864		CH	27150		
68	REFLECTOR 98 POSITION	866		CH	27250		
02	REFLECTOR 99 POSITION	868		CH	27350		
24	REFLECTOR 100 POSITION	870		CH	27450		
68	REFLECTOR 101 POSITION	872		CH	27550		
02	REFLECTOR 102 POSITION	874		CH	27650		
24	REFLECTOR 103 POSITION	876		CH	27750		
68	REFLECTOR 104 POSITION	878		CH	27850		
02	REFLECTOR 105 POSITION	880		CH	27950		
24	REFLECTOR 106 POSITION	882		CH	28050		
68	REFLECTOR 107 POSITION	884		CH	28150		
02	REFLECTOR 108 POSITION	886		CH	28250		
24	REFLECTOR 109 POSITION	888		CH	28350		
68	REFLECTOR 110 POSITION	890		CH	28450		
02	REFLECTOR 111 POSITION	892		CH	28550		
24	REFLECTOR 112 POSITION	894		CH	28650		
68	REFLECTOR 113 POSITION	896		CH	28750		
02	REFLECTOR 114 POSITION	898		CH	28850		
24	REFLECTOR 115 POSITION	900		CH	28950		
68	REFLECTOR 116 POSITION	902		CH	29050		
02	REFLECTOR 117 POSITION	904		CH	29150		
24	REFLECTOR 118 POSITION	906		CH	29250		
68	REFLECTOR 119 POSITION	908		CH	29350		
02	REFLECTOR 120 POSITION	910		CH	29450		
24	REFLECTOR 121 POSITION	912		CH	29550		
68	REFLECTOR 122 POSITION	914		CH	29650		
02	REFLECTOR 123 POSITION	916		CH	29750		
24	REFLECTOR 124 POSITION	918		CH	29850		
68	REFLECTOR 125 POSITION	920		CH	29950		
02	REFLECTOR 126 POSITION	922		CH	30050		
24	REFLECTOR 127 POSITION	924		CH	30150		
68	REFLECTOR 128 POSITION	926		CH	30250		
02	REFLECTOR 129 POSITION	928		CH	30350		
24	REFLECTOR 130 POSITION	930		CH	30450		
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68	REFLECTOR 134 POSITION	938		CH	30850		
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68	REFLECTOR 137 POSITION	944		CH	31150		
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24	REFLECTOR 142 POSITION	954		CH	31650		
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02	REFLECTOR 144 POSITION	958		CH	31850		
24	REFLECTOR 145 POSITION	960		CH	31950		
68	REFLECTOR 146 POSITION	962		CH	32050		
02	REFLECTOR 147 POSITION	964		CH	32150		
24	REFLECTOR 148 POSITION	966		CH	32250		
68	REFLECTOR 149 POSITION	968		CH	32350		
02	REFLECTOR 150 POSITION	970		CH	32450		
24	REFLECTOR 151 POSITION	972		CH	32550		
68	REFLECTOR 152 POSITION	974		CH	32650		
02	REFLECTOR 153 POSITION	976		CH	32750		
24	REFLECTOR 154 POSITION	978		CH	32850		
68	REFLECTOR 155 POSITION	980		CH	32950		
02	REFLECTOR 156 POSITION	982		CH	33050		
24	REFLECTOR 157 POSITION	984		CH	33150		
68	REFLECTOR 158 POSITION	986		CH	33250		
02	REFLECTOR 159 POSITION	988		CH	33350		
24	REFLECTOR 160 POSITION	990		CH	33450		
68	REFLECTOR 161 POSITION	992		CH	33550		
02	REFLECTOR 162 POSITION	994		CH	33650		
24	REFLECTOR 163 POSITION	996		CH	33750		
68	REFLECTOR 164 POSITION	998		CH	33850		
02	REFLECTOR 165 POSITION	1000		CH	33950		
24	REFLECTOR 166 POSITION	1002		CH	34050		
68	REFLECTOR 167 POSITION	1004		CH	34150		
02	REFLECTOR 168 POSITION	1006		CH	34250		
24	REFLECTOR 169 POSITION	1008		CH	34350		
68	REFLECTOR 170 POSITION	1010		CH	34450		
02	REFLECTOR 171 POSITION	1012		CH	34550		
24	REFLECTOR 172 POSITION	1014		CH	34650		
68	REFLECTOR 173 POSITION	1016		CH	34750		
02	REFLECTOR 174 POSITION	1018		CH	34850		
24	REFLECTOR 175 POSITION	1020		CH	34950		
68	REFLECTOR 176 POSITION	1022		CH	35050		
02	REFLECTOR 177 POSITION	1024		CH	35150		
24	REFLECTOR 178 POSITION	1026		CH	35250		
68	REFLECTOR 179 POSITION	1028		CH	35350		
02	REFLECTOR 180 POSITION	1030		CH	35450		
24	REFLECTOR 181 POSITION	1032		CH	35550		
68	REFLECTOR 182 POSITION	1034		CH	35650		
02	REFLECTOR 183 POSITION	1036		CH	35750		
24	REFLECTOR 184 POSITION	1038		CH	35850		
68	REFLECTOR 185 POSITION	1040		CH	35950		
02	REFLECTOR 186 POSITION	1042		CH	36050		
24	REFLECTOR 187 POSITION	1044		CH	36150		
68	REFLECTOR 188 POSITION	1046		CH	36250		
02	REFLECTOR 189 POSITION	1048		CH	36350		
24	REFLECTOR 190 POSITION	1050		CH	36450		
68	REFLECTOR 191 POSITION	1052		CH	36550		
02	REFLECTOR 192 POSITION	1054		CH	36650		
24	REFLECTOR 193 POSITION	1056		CH	36750		
68	REFLECTOR 194 POSITION	1058		CH	36850		
02	REFLECTOR 195 POSITION	1060		CH	36950		
24	REFLECTOR 196 POSITION	1062		CH	37050		
68	REFLECTOR 197 POSITION	1064		CH	37150		
02	REFLECTOR 198 POSITION	1066		CH	37250		
24	REFLECTOR 199 POSITION	1068		CH	37350		
68	REFLECTOR 200 POSITION	1070		CH	37450		
02	REFLECTOR 201 POSITION	1072		CH	37550		
24	REFLECTOR 202 POSITION	1074		CH	37650		
68	REFLECTOR 203 POSITION	1076		CH			



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EOS	A1_03	E1.EXE;43	SCIENCE DATA WARM CAL MODE	10-NOV-98	09:11:45	PAGE	3
ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE		
194	REFLECTOR 1 POSITION	17491	772	REFLECTOR 1 POSITION	17491	55	
196	REFLECTOR 2 POSITION	17430	774	REFLECTOR 2 POSITION	17430	20	
198	REFLECTOR 1 POS	17601	776	REFLECTOR 1 POS	17601	20	
200	REFLECTOR 2 POS	17671	778	REFLECTOR 2 POS	17671	20	
202	REFLECTOR 1 POS	17701	780	REFLECTOR 1 POS	17701	20	
204	REFLECTOR 2 POS	17890	782	REFLECTOR 2 POS	17890	20	
206	REFLECTOR 1 POS	17950	784	REFLECTOR 1 POS	17950	20	
208	REFLECTOR 2 POS	17503	786	REFLECTOR 2 POS	17503	20	
210	REFLECTOR 1 POS	17563	788	REFLECTOR 1 POS	17563	20	
212	REFLECTOR 2 POS	17339	790	REFLECTOR 2 POS	17339	20	
214	REFLECTOR 1 POS	17380	792	REFLECTOR 1 POS	17380	20	
216	REFLECTOR 2 POS	17543	794	REFLECTOR 2 POS	17543	20	
218	REFLECTOR 1 POS	17076	796	REFLECTOR 1 POS	17076	20	
220	REFLECTOR 2 POS	17292	800	REFLECTOR 2 POS	17292	20	
222	REFLECTOR 1 POS	17303	802	REFLECTOR 1 POS	17303	20	
224	REFLECTOR 2 POS	17430	804	REFLECTOR 2 POS	17430	20	
226	REFLECTOR 1 POS	17601	806	REFLECTOR 1 POS	17601	20	
228	REFLECTOR 2 POS	17701	808	REFLECTOR 2 POS	17701	20	
230	REFLECTOR 1 POS	17890	810	REFLECTOR 1 POS	17890	20	
232	REFLECTOR 2 POS	17950	812	REFLECTOR 2 POS	17950	20	
234	REFLECTOR 1 POS	17503	814	REFLECTOR 1 POS	17503	20	
236	REFLECTOR 2 POS	17563	816	REFLECTOR 2 POS	17563	20	
238	REFLECTOR 1 POS	17339	818	REFLECTOR 1 POS	17339	20	
240	REFLECTOR 2 POS	17380	820	REFLECTOR 2 POS	17380	20	
242	REFLECTOR 1 POS	17543	822	REFLECTOR 1 POS	17543	20	
244	REFLECTOR 2 POS	17076	824	REFLECTOR 2 POS	17076	20	
246	REFLECTOR 1 POS	17292	826	REFLECTOR 1 POS	17292	20	
248	REFLECTOR 2 POS	17303	828	REFLECTOR 2 POS	17303	20	
250	REFLECTOR 1 POS	17430	830	REFLECTOR 1 POS	17430	20	
252	REFLECTOR 2 POS	17601	832	REFLECTOR 2 POS	17601	20	
254	REFLECTOR 1 POS	17701	834	REFLECTOR 1 POS	17701	20	
256	REFLECTOR 2 POS	17890	836	REFLECTOR 2 POS	17890	20	
258	REFLECTOR 1 POS	17950	838	REFLECTOR 1 POS	17950	20	
260	REFLECTOR 2 POS	17503	840	REFLECTOR 2 POS	17503	20	
262	REFLECTOR 1 POS	17563	842	REFLECTOR 1 POS	17563	20	
264	REFLECTOR 2 POS	17339	844	REFLECTOR 2 POS	17339	20	
266	REFLECTOR 1 POS	17380	846	REFLECTOR 1 POS	17380	20	
268	REFLECTOR 2 POS	17543	848	REFLECTOR 2 POS	17543	20	
270	REFLECTOR 1 POS	17076	850	REFLECTOR 1 POS	17076	20	
272	REFLECTOR 2 POS	17292	852	REFLECTOR 2 POS	17292	20	
274	REFLECTOR 1 POS	17303	854	REFLECTOR 1 POS	17303	20	
276	REFLECTOR 2 POS	17430	856	REFLECTOR 2 POS	17430	20	
278	REFLECTOR 1 POS	17601	858	REFLECTOR 1 POS	17601	20	
280	REFLECTOR 2 POS	17701	860	REFLECTOR 2 POS	17701	20	
282	REFLECTOR 1 POS	17890	862	REFLECTOR 1 POS	17890	20	
284	REFLECTOR 2 POS	17950	864	REFLECTOR 2 POS	17950	20	
286	REFLECTOR 1 POS	17503	866	REFLECTOR 1 POS	17503	20	
288	REFLECTOR 2 POS	17563	868	REFLECTOR 2 POS	17563	20	
290	REFLECTOR 1 POS	17339	870	REFLECTOR 1 POS	17339	20	
292	REFLECTOR 2 POS	17380	872	REFLECTOR 2 POS	17380	20	
294	REFLECTOR 1 POS	17543	874	REFLECTOR 1 POS	17543	20	
296	REFLECTOR 2 POS	17076	876	REFLECTOR 2 POS	17076	20	
298	REFLECTOR 1 POS	17292	878	REFLECTOR 1 POS	17292	20	
300	REFLECTOR 2 POS	17303	880	REFLECTOR 2 POS	17303	20	
302	REFLECTOR 1 POS	17430	882	REFLECTOR 1 POS	17430	20	
304	REFLECTOR 2 POS	17601	884	REFLECTOR 2 POS	17601	20	
306	REFLECTOR 1 POS	17701	886	REFLECTOR 1 POS	17701	20	
308	REFLECTOR 2 POS	17890	888	REFLECTOR 2 POS	17890	20	
310	REFLECTOR 1 POS	17950	890	REFLECTOR 1 POS	17950	20	
312	REFLECTOR 2 POS	17503	892	REFLECTOR 2 POS	17503	20	
314	REFLECTOR 1 POS	17563	894	REFLECTOR 1 POS	17563	20	
316	REFLECTOR 2 POS	17339	896	REFLECTOR 2 POS	17339	20	
318	REFLECTOR 1 POS	17380	898	REFLECTOR 1 POS	17380	20	
320	REFLECTOR 2 POS	17543	900	REFLECTOR 2 POS	17543	20	
322	REFLECTOR 1 POS	17076	902	REFLECTOR 1 POS	17076	20	
324	REFLECTOR 2 POS	17292	904	REFLECTOR 2 POS	17292	20	
326	REFLECTOR 1 POS	17303	906	REFLECTOR 1 POS	17303	20	
328	REFLECTOR 2 POS	17430	908	REFLECTOR 2 POS	17430	20	
330	REFLECTOR 1 POS	17601	910	REFLECTOR 1 POS	17601	20	
332	REFLECTOR 2 POS	17701	912	REFLECTOR 2 POS	17701	20	
334	REFLECTOR 1 POS	17890	914	REFLECTOR 1 POS	17890	20	
336	REFLECTOR 2 POS	17950	916	REFLECTOR 2 POS	17950	20	
338	REFLECTOR 1 POS	17503	918	REFLECTOR 1 POS	17503	20	
340	REFLECTOR 2 POS	17563	920	REFLECTOR 2 POS	17563	20	
342	REFLECTOR 1 POS	17339	922	REFLECTOR 1 POS	17339	20	
344	REFLECTOR 2 POS	17380	924	REFLECTOR 2 POS	17380	20	
346	REFLECTOR 1 POS	17543	926	REFLECTOR 1 POS	17543	20	
348	REFLECTOR 2 POS	17076	928	REFLECTOR 2 POS	17076	20	
350	REFLECTOR 1 POS	17292	930	REFLECTOR 1 POS	17292	20	
352	REFLECTOR 2 POS	17303	932	REFLECTOR 2 POS	17303	20	
354	REFLECTOR 1 POS	17430	934	REFLECTOR 1 POS	17430	20	
356	REFLECTOR 2 POS	17601	936	REFLECTOR 2 POS	17601	20	
358	REFLECTOR 1 POS	17701	938	REFLECTOR 1 POS	17701	20	
360	REFLECTOR 2 POS	17890	940	REFLECTOR 2 POS	17890	20	
362	REFLECTOR 1 POS	17950	942	REFLECTOR 1 POS	17950	20	
364	REFLECTOR 2 POS	17503	944	REFLECTOR 2 POS	17503	20	
366	REFLECTOR 1 POS	17563	946	REFLECTOR 1 POS	17563	20	
368	REFLECTOR 2 POS	17339	948	REFLECTOR 2 POS	17339	20	
370	REFLECTOR 1 POS	17380	950	REFLECTOR 1 POS	17380	20	
372	REFLECTOR 2 POS	17543	952	REFLECTOR 2 POS	17543	20	
374	REFLECTOR 1 POS	17076	954	REFLECTOR 1 POS	17076	20	
376	REFLECTOR 2 POS	17292	956	REFLECTOR 2 POS	17292	20	
378	REFLECTOR 1 POS	17303	958	REFLECTOR 1 POS	17303	20	
380	REFLECTOR 2 POS	17430	960	REFLECTOR 2 POS	17430	20	
382	REFLECTOR 1 POS	17601	962	REFLECTOR 1 POS	17601	20	
384	REFLECTOR 2 POS	17701	964	REFLECTOR 2 POS	17701	20	
386	REFLECTOR 1 POS	17890	966	REFLECTOR 1 POS	17890	20	
388	REFLECTOR 2 POS	17950	968	REFLECTOR 2 POS	17950	20	
390	REFLECTOR 1 POS	17503	970	REFLECTOR 1 POS	17503	20	
392	REFLECTOR 2 POS	17563	972	REFLECTOR 2 POS	17563	20	
394	REFLECTOR 1 POS	17339	974	REFLECTOR 1 POS	17339	20	
396	REFLECTOR 2 POS	17380	976	REFLECTOR 2 POS	17380	20	
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400	REFLECTOR 2 POS	17076	980	REFLECTOR 2 POS	17076	20	
402	REFLECTOR 1 POS	17292	982	REFLECTOR 1 POS	17292	20	
404	REFLECTOR 2 POS	17303	984	REFLECTOR 2 POS	17303	20	
406	REFLECTOR 1 POS	17430	986	REFLECTOR 1 POS	17430	20	
408	REFLECTOR 2 POS	17601	988	REFLECTOR 2 POS	17601	20	
410	REFLECTOR 1 POS	17701	990	REFLECTOR 1 POS	17701	20	
412	REFLECTOR 2 POS	17890	992	REFLECTOR 2 POS	17890	20	
414	REFLECTOR 1 POS	17950	994	REFLECTOR 1 POS	17950	20	
416	REFLECTOR 2 POS	17503	996	REFLECTOR 2 POS	17503	20	
418	REFLECTOR 1 POS	17563	998	REFLECTOR 1 POS	17563	20	
420	REFLECTOR 2 POS	17339	1000	REFLECTOR 2 POS	17339	20	
422	REFLECTOR 1 POS	17380	1002	REFLECTOR 1 POS	17380	20	
424	REFLECTOR 2 POS	17543	1004	REFLECTOR 2 POS	17543	20	
426	REFLECTOR 1 POS	17076	1006	REFLECTOR 1 POS	17076	20	
428	REFLECTOR 2 POS	17292	1008	REFLECTOR 2 POS	17292	20	
430	REFLECTOR 1 POS	17303	1010	REFLECTOR 1 POS	17303	20	
432	REFLECTOR 2 POS	17430	1012	REFLECTOR 2 POS	17430	20	
434	REFLECTOR 1 POS	17601	1014	REFLECTOR 1 POS	17601	20	
436	REFLECTOR 2 POS	17701	1016	REFLECTOR 2 POS	17701	20	
438	REFLECTOR 1 POS	17890	1018	REFLECTOR 1 POS	17890	20	
440	REFLECTOR 2 POS	17950	1020	REFLECTOR 2 POS	17950	20	
442	REFLECTOR 1 POS	17503	1022	REFLECTOR 1 POS	17503	20	
444	REFLECTOR 2 POS	17563	1024	REFLECTOR 2 POS	17563	20	
446	REFLECTOR 1 POS	17339	1026	REFLECTOR 1 POS	17339	20	
448	REFLECTOR 2 POS	17380	1028	REFLECTOR 2 POS	17380	20	
450	REFLECTOR 1 POS	17543	1030	REFLECTOR 1 POS	17543	20	
452	REFLECTOR 2 POS	17076	1032	REFLECTOR 2 POS	17076	20	
454	REFLECTOR 1 POS	17292	1034	REFLECTOR 1 POS	17292	20	
456	REFLECTOR 2 POS	17303	1036	REFLECTOR 2 POS	17303	20	
458	REFLECTOR 1 POS	17430	1038	REFLECTOR 1 POS	17430	20	
460	REFLECTOR 2 POS	17601	1040	REFLECTOR 2 POS	17601	20	
462	REFLECTOR 1 POS	17701	1042	REFLECTOR 1 POS	17701	20	
464	REFLECTOR 2 POS	17890	1044	REFLECTOR 2 POS	17890	20	
466	REFLECTOR 1 POS	17950	1046	REFLECTOR 1 POS	17950	20	
468	REFLECTOR 2 POS	17503	1048	REFLECTOR 2 POS	17503	20	
470	REFLECTOR 1 POS	17563	1050	REFLECTOR 1 POS	17563	20	
472	REFLECTOR 2 POS	17339	1052	REFLECTOR 2 POS	17339	20	
474	REFLECTOR 1 POS	17380	1054	REFLECTOR 1 POS	17380	20	
476	REFLECTOR 2 POS	17543	1056	REFLECTOR 2 POS	17543	20	
478	REFLECTOR 1 POS	17076	1058	REFLECTOR 1 POS	17076	20	
480	REFLECTOR 2 POS	17292	1060	REFLECTOR 2 POS	17292	20	
482	REFLECTOR 1 POS	17303	1062	REFLECTOR 1 POS	17303	20	
484	REFLECTOR 2 POS	17430	1064	REFLECTOR 2 POS	17430	20	
486	REFLECTOR 1 POS	17601	1066	REFLECTOR 1 POS	17601	20	
488	REFLECTOR 2 POS	17701	1068	REFLECTOR 2 POS	17701	20	
490	REFLECTOR 1 POS	17890	1070	REFLECTOR 1 POS	17890	20	
492	REFLECTOR 2 POS	17950	1072	REFLECTOR 2 POS	17950	20	
494	REFLECTOR 1 POS	17503	1074	REFLECTOR 1 POS	17503	20	
496	REFLECTOR 2 POS	17563	1076	REFLECTOR 2 POS	17563	20	
498	REFLECTOR 1 POS	17339	1078	REFLECTOR 1 POS	17339	20	
500	REFLECTOR 2 POS	17380	1080	REFLECTOR 2 POS	17380	20	
502	REFLECTOR 1 POS	17543	1082	REFLECTOR 1 POS	17543	20	
504	REFLECTOR 2 POS	17076	1084	REFLECTOR 2 POS	17076	20	
506	REFLECTOR 1 POS	17292	1086	REFLECTOR 1 POS	17292	20	
508	REFLECTOR 2 POS	17303	1088	REFLECTOR 2 POS	17303	20	
510	REFLECTOR 1 POS	17430	1090	REFLECTOR 1 POS	17430	20	
512	REFLECTOR 2 POS	17601	1092	REFLECTOR 2 POS	17601	20	
514	REFLECTOR 1 POS	17701	1094	REFLECTOR 1 POS	17701	20	
516	REFLECTOR 2 POS	17890	1096	REFLECTOR 2 POS	17890	20	
518	REFLECTOR 1 POS	17950	1098	REFLECTOR 1 POS	17950	20	
520	REFLECTOR 2 POS	17503	1100	REFLECTOR 2 POS	17503	20	
522	REFLECTOR 1 POS	17563	1102	REFLECTOR 1 POS	17563	20	
5							

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EOS	A1_03	E1.EXE;43	SCIENCE DATA	10-NOV-98	09:11:45	PAGE	5
ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE		
394	REFLECTOR 1 POSITION 13	169506	972	REFLECTOR 1 POSITION 30	169306		
395	REFLECTOR 2 POSITION 13	169306	974	REFLECTOR 2 POSITION 30	169306		
398	REFL 1 POS 13	169306	976	REFL 1 POS 30	169306		
402	REFL 2 POS 13	169306	978	REFL 2 POS 30	169306		
404	WARM CAL SAMPLE 13	169306	980	WARM CAL SAMPLE 30	169306		
406		169306	982		169306		
410		169306	984		169306		
412		169306	986		169306		
414		169306	988		169306		
416		169306	990		169306		
418		169306	992		169306		
420		169306	994		169306		
422		169306	996		169306		
424		169306	998		169306		
426		169306	1000		169306		
428		169306	1002		169306		
430		169306	1004		169306		
432		169306	1006		169306		
434		169306	1008		169306		
436		169306	1010		169306		
438		169306	1012		169306		
440		169306	1014		169306		
442		169306	1016		169306		
444		169306	1018		169306		
446		169306	1020		169306		
448		169306	1022		169306		
450		169306	1024		169306		
452		169306	1026		169306		
454		169306	1028		169306		
456		169306	1030		169306		
458		169306	1032		169306		
460		169306	1034		169306		
462		169306	1036		169306		
464		169306	1038		169306		
466		169306	1040		169306		
468		169306	1042		169306		
470		169306	1044		169306		
472		169306	1046		169306		
474		169306	1048		169306		
476		169306	1050		169306		
478		169306	1052		169306		
480		169306	1054		169306		
482		169306	1056		169306		
484		169306	1058		169306		
486		169306	1060		169306		
488		169306	1062		169306		
490		169306	1064		169306		

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EOS	A1_03	E1.EXE;43	SCIENCE DATA	10-NOV-98	09:11:45	PAGE	6
ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE		
494	WARM CAL SAMPLE 15	161033	1072		160244		
496		169459	1076		170064		
498		163309	1080		170093		
500		167403	1084		170093		
502		166013	1088		170093		
504		167010	1092		170093		
506		169010	1096		170093		
508		169010	1100		170093		
510		169010	1104		170093		
512		169010	1108		170093		
514		169010	1112		170093		
516		169010	1116		170093		
518		169010	1120		170093		
520		169010	1124		170093		
522		169010	1128		170093		
524		169010	1132		170093		
526		169010	1136		170093		
528		169010	1140		170093		
530		169010	1144		170093		
532		169010	1148		170093		
534		169010	1152		170093		
536		169010	1156		170093		
538		169010	1160		170093		
540		169010	1164		170093		
542		169010	1168		170093		
544		169010	1172		170093		
546		169010	1176		170093		
548		169010	1180		170093		
550		169010	1184		170093		
552		169010	1188		170093		
554		169010	1192		170093		
556		169010	1196		170093		
558		169010	1200		170093		
560		169010	1204		170093		
562		169010	1208		170093		
564		169010	1212		170093		
566		169010	1216		170093		
568		169010	1220		170093		
570		169010	1224		170093		
572		169010	1228		170093		
574		169010	1232		170093		
576		169010	1236		170093		
578		169010	1240		170093		
580		169010	1244		170093		
582		169010	1248		170093		
584		169010	1252		170093		
586		169010	1256		170093		
588		169010	1260		170093		
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592		169010	1268		170093		
594		169010	1272		170093		
596		169010	1276		170093		
598		169010	1280		170093		
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602		169010	1288		170093		
604		169010	1292		170093		
606		169010	1296		170093		
608		169010	1300		170093		
610		169010	1304		170093		
612		169010	1308		170093		
614		169010	1312		170093		
616		169010	1316		170093		
618		169010	1320		170093		
620		169010	1324		170093		
622		169010	1328		170093		
624		169010	1332		170093		
626		169010	1336		170093		
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632		169010	1348		170093		
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642		169010	1368		170093		
644		169010	1372		170093		
646		169010	1376		170093		
648		169010	1380		170093		
650		169010	1384		170093		
652		169010	1388		170093		
654		169010	1392		170093		
656		169010	1396		170093		
658		169010	1400		170093		
660		169010	1404		170093		
662		169010	1408		170093		
664		169010	1412		170093		
666		169010	1416		170093		
668		169010	1420		170093		
670		169010	1424		170093		
672		169010	1428		170093		
674		169010	1432		170093		
676		169010	1436		170093		
678		169010	1440		170093		
680		169010	1444		170093		
682		169010	1448		170093		
684		169010	1452		170093		
686		169010	1456		170093		
688		169010	1460		170093		
690		169010	1464		170093		
692		169010	1468		170093		
694		169010	1472		170093		
696		169010	1476		170093		
698		169010	1480		170093		
700		169010	1484		170093		
702		169010	1488		170093		
704		169010	1492		170093		
706		169010	1496		170093		
708		169010	1500		170093		
710		169010	1504		170093		
712		169010	1508		170093		
714		169010	1512		170093		
716		169010	1516		170093		
718		169010	1520		170093		
720		169010	1524		170093		
722		169010	1528		170093		
724		169010	1532		170093		
726		169010	1536		170093		
728		169010	1540		170093		
730		169010	1544		170093		
732		169010	1548		170093		
734		169010	1552		170093		
736		169010	1556		170093		
738		169010	1560		170093		
740		169010	1564		170093		
742		169010	1568		170093		
744		169010	1572		170093		
746		169010	1576		170093		
748		169010	1580		170093		
750		169010	1584		170093		
752		169010	1588		170093		
754		169010	1592		170093		
756		169010	1596		170093		
758		169010	1600		170093		
760		169010	1604		170093		
762		169010	1608		170093		
764		169010	1612		170093		
766		169010	1616		170093		
768		169010	1620		170093		
770		169010	1624		170093		
772		169010	1628		170093		
774		169010	1632		170093		
776		169010	1636		170093		
778		169010	1640		170093		
780		169010	1644		170093		
782		169010	1648		170093		
784		169010	1652		170093		
786		169010	1656		170093		
788		169010	1660		170093		
790		169010	1664		170093		
792		169010	1668		170093		
794		169010	1672		170093		
796		169010	1676		170093		
798		169010	1680		170093		
800		169010	1684		170093		
802		169010	1688		170093		
804		169010	1692		170093		
806		169010	1696		170093		
808		169010	1700		170093		
810		169010	1704		170093		
812		169010	1708		170093		
814		169010	1712		170093		
816		169010	1716		170093		
818		169010	1720		170093		
820		169010	1724		170093		
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824		169010	1732		170093		
826		169010	1736		170093		
828		169010	1740		170093		
830		169010	1744		170093		
832		169010	1748		170093		
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836		169010	1756		170093		
838		169010	1760		170093		
840		169010	1764		170093		
842		169010	1768		170093		
844		169010	1772		170093		
846		169010	1776		170093		
848		169010	1780		170093		
850		169010	1784		170093		
852		169010	1788		170093		
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860		169010	1804		170093		
862		169010	1808		170093		
864		169010	1812		170093		
866		169010	1816		170093		
868		169010	1820		170093		
870		169010	1824		170093		
872		169010	1828		170093		
874		169010	1832		170093		
876		169010	1836		170093		
878		169010	1840		170093		
880		169010	1844		170093		
882		169010	1848		170093		
884		169010	1852		170093		
886		169010	1856		170093		
888		169010	1860		170093		

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EOS A1\_03 E1.EXE;43 AZONIX DATA 10-NOV-98 09:11:45 PAGE 9  
WARM CAL MODE

PRT TEMPERATURES  
VARIABLE TARGET

A1-1		A1-2	
NO	DEG K	NO	DEG K
615	72.16	293	45
616	72.16	293	45
617	72.16	293	45
618	72.16	293	45
619	72.16	293	45
620	72.16	293	45
621	72.16	293	45
622	72.16	293	45
623	72.16	293	45
624	72.16	293	45
625	72.16	293	45
626	72.16	293	45
627	72.16	293	45
628	72.16	293	45
629	72.16	293	45
630	72.16	293	45
631	72.16	293	45

FIXED TARGET

BASEPLATE

THERMOCOUPLE TEMPERATURES

FIXED TARGET SHROUD

VARIABLE TARGET SHROUD

FIXED TARGET N2

VARIABLE TARGET N2

HEATER N2

FIXED TARGET FLOW METER  
VARIABLE TARGET FLOW METER  
BASEPLATE HEATER N2  
BASEPLATE N2  
BASEPLATE FLOW METER  
ADJUNCT RADIATORS

A1-1		A1-2	
NO	DEG K	NO	DEG K
358	19.98	293	45
359	19.98	293	45
360	19.98	293	45
361	19.98	293	45
362	19.98	293	45
363	19.98	293	45
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595	19.98	293	45
596	19.98	293	45
597	19.98	293	45
598	19.98	293	45
599	19.98	293	45
600	19.98	293	45

EOS A1-03 E1.EXE:43 FULL SCAN MODE P1 10-NOV-98 09:13:26 SCAN NUMBER 166  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

RADIOMETRIC DATA

BEAM POSITION 1

CH	DATA	CH	DATA
3	16095	8	16999
4	16928	9	16667
5	16311	10	17006
6	17482	11	18888
7	16020	12	19049

[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN A537 CALC A537 SA28 169 SA29 315  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

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43-7c  
J. Allen  
11/10/98



EOS A1-03 E1-EXE:43 FULL SCAN MODE P1 10-NOV-98 09:14:39 SCAN NUMBER 175  
[ 5 ] SCIENCE DATA ELEMENT 388 REF 1 2ND LOOK POS 12 32377  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

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RADIOMETRIC DATA

BP	DATA	BP	DATA	BP	DATA	BP	DATA
1	16092	9	16087	17	16087	25	16088
2	16090	10	16086	18	16086	26	16086
3	16088	11	16084	19	16087	27	16086
4	16087	12	16081	20	16090	28	16078
5	16086	13	16092	21	16090	29	16080
6	16086	14	16083	22	16091	30	16079
7	16086	15	16092	23	16086	CC	16077
8	16086	16	16087	24	16082	WC	16097

[ 21 ] UP

ENGR OK POWER ON CHECKSUM IN 97DF CALC 97DF SA28 178 SA29 333  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL RETURN

43-7e  
J. W. De 11/10/98

FOS A1-03 E1. EXE:43 FULL SCAN MODE P1 10-NOV-98 09:15:35 SCAN NUMBER 182  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

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WARM CALIBRATE			
CH	DATA	CH	DATA
3	16091	7	16010
3	16091	7	16013
4	16928	8	16994
4	16930	8	16994
5	16301	9	16665
5	16298	9	16666
6	17483		
6	17482		

ENGR OK POWER ON CHECKSUM IN 8F5F CALC 8F5F SA28 184 SA29 346  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL SA28 [ 1 ] RETURN

43-79  
J. W. Allen  
11/10/98

EOS [ 5 ] A1-03 E1-EXE:43 FULL SCAN MODE P1 10-NOV-98 09:15:59 SCAN NUMBER 185  
[ 6 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 7 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

CH DATA		COLD CALIBRATE		DATA		CH DATA	
CH	DATA	CH	DATA	CH	DATA	CH	DATA
3	16073	7	15999	10	16983	13	19420
3	16077	7	15997	10	16973	13	19418
4	16904	8	16971	11	18842	14	21039
4	16907	8	16972	11	18844	14	21015
5	16275	9	16652	12	18999	15	16849
5	16276	9	16650	12	19010	15	16849
6	17470						
6	17472						

ENGR OK POWER ON CHECKSUM IN 84ED CALC 84ED SA28 188 SA29 353  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL RETURN

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JAD  
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EOS ] A1-03 E1.EXE:43 FULL SCAN MODE P1 10-NOV-98 09:18:07 SCAN NUMBER 201  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

REFLECTOR POSITIONS 15/101

BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2
1	14521	14521	9	15739	15733	17	571	562
2	14677	14671	10	15893	15884	18	579	713
3	14830	14823	11	16042	16036	19	872	715
4	14984	14973	12	16196	16188	20	872	865
5	15134	15127	13	16349	16339	21	1022	1017
6	15286	15278	14	16415	16407	22	1130	1168
7	15438	15430	15	165	165	23	1130	1168
8	15590	15581	16	421	409	24	1479	1473
[ 21 ]	UP			22 ]	DOWN		1631	1624

ENGR OK POWER ON CHECKSUM IN 6D1F CALC 6D1F SA28 203 SA29 384  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL RETURN

4.3-7K

*[Signature]*  
11/10/98

EOS A1-03 E1-EXE:43 FULL SCAN MODE P1 10-NOV-98 09:17:27 SCAN NUMBER 196  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

16/101

BP LOOK 1 LOOK 2 BP LOOK 1 LOOK 2 BP LOOK 1 LOOK 2  
1 14169 14169 9 15386 15380 17 213 210 25 1427 1422  
2 14323 14318 10 15538 15533 18 367 361 26 1578 1574  
3 14474 14469 11 15688 15683 19 518 513 27 1731 1726  
4 14625 14620 12 15834 15834 20 670 664 28 1883 1878  
5 14775 14772 13 15985 15985 21 821 815 29 2034 2029  
6 14929 14926 14 16137 16137 22 970 967 30 2184 2180  
7 15081 15076 15 16295 16295 23 1120 1119 31 2779 2775  
8 15232 15228 16 16256 16256 24 1276 1272 32 3778 3773  
[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN 700F CALC 700F SA28 199 SA29 375  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL RETURN

4.3-7k

*[Signature]*  
11/10/98

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EOS  A1-03 E1 . EXE:43 FULL SCAN MODE 207
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 1.2 SCAN NUMBER 32377
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

NO SCIENCE TEMPERATURES 1 TO 16 DATA TEMP C
DATA TEMP C NO
1 SCAN MOTOR A1-1 16898 20.86 9 LO CHANNEL 5 19173 25.68
2 SCAN MOTOR A1-2 17479 21.27 10 LO CHANNEL 5 19212 24.83
3 FEED HORN A1-1 17367 22.10 11 LO CHANNEL 7 18874 24.86
4 FEED HORN A1-2 17760 22.88 12 LO CHANNEL 8 19606 26.31
5 REF MUX A1-1 18282 23.68 13 LO CHANNEL 15 19762 23.35
6 REF MUX A1-2 18811 24.76 14 PLLO #2 18097 23.74
7 LO CHANNEL 3 19591 26.52 15 PLLO #1 20898 28.74
8 LO CHANNEL 4 19981 26.57 16 S.P. (1553 INTF) 14223 28.82
[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN 633D CALC 633D SA28 210 SA29 397
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL RETURN
  
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4.3-7 m  
*[Signature]*  
11/10/98

EOS A1-03 E1. EXE:43 FULL SCAN MODE P1 10-NOV-98 09:19:03 SCAN NUMBER 208  
 [ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
 [ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
 [ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

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NO	DATA	SCIENCE TEMP C	TEMPERATURES 17 TO 32	DATA	TEMP C
17	MIXER IF CH 3	25.07	25 IF AMP CH 11/14	19301	25.51
18	MIXER IF CH 4	25.08	26 IF AMP CH 9	19442	25.49
19	MIXER IF CH 5	25.03	27 IF AMP CH 10	19317	25.83
20	MIXER IF CH 6	24.24	28 IF AMP CH 11	18573	23.72
21	MIXER IF CH 7	24.37	29 DC/DC CONVERTER	21723	29.59
22	MIXER IF CH 8	25.16	30 IF AMP CH 13	18299	23.17
23	MIXER IF CH 9	23.49	31 IF AMP CH 14	18657	24.29
24	MIXER IF CH 10	26.36	32 IF AMP CH 12	18436	23.65
25	MIXER IF CH 11	[ 22 ] DOWN			

ENGR OK POWER ON CHECKSUM IN 60B9 CALC 60B9 SA28 211 SA29 399  
 SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

FOS ] A1-03 E1.EXE:43 FULL SCAN MODE P1 10-NOV-98 09:19:11 SCAN NUMBER 209  
 [ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
 [ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
 [ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

NO SCIENCE DATA TEMPERATURES 31 TO 46 DATA TEMP C  
 31 IF AMP CH 14 18662 24.30 39 A1-1 WARM LOAD 4 C 21967 20.98  
 32 IF AMP CH 12 18444 23.66 40 A1-1 WARM LOAD 4 C 22166 20.98  
 33 RF SHELVE A1-1 18967 24.98 41 A1-2 WARM LOAD 4 C 22352 21.23  
 34 RF SHELVE A1-2 19076 24.54 42 A1-2 WARM LOAD 4 C 22402 21.24  
 35 DETECTOR/PREAMP 1 17709 22.62 43 A1-2 WARM LOAD 4 C 22414 21.22  
 36 A1-1 WARM LOAD 1 21902 20.88 44 A1-2 WARM LOAD 4 C 22410 21.12  
 37 A1-1 WARM LOAD 2 22379 20.96 45 A1-2 WARM LOAD 4 C 22409 21.22  
 38 A1-1 WARM LOAD 3 21892 21.01 THERMAL REFERENCE 25259  
 [ 21 ] UP [ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN 5C9B CALC 5C9B SA28 212 SA29 401  
 SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL RETURN

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4.3-7m



EOS	A1-03	E1. EXE;43	FULL SCAN MODE	P1 10-NOV-98 09:20:07	SCAN NUMBER	216
[ 5 ]	SCIENCE	DATA	ELEMENT 388	REFL 1 2ND LOOK POS 12	32377	
[ 6 ]	CONTROL/STATUS		ELEMENT 1	ANTENNA IN FULL SCAN MODE	YES	
[ 7 ]	ENGINEERING		ELEMENT 1	SIGNAL PROCESSOR	+5 VDC	4.95
ENGINEERING 1 TO 18						
1	SIGNAL PROCESSOR		+5 VDC	4.95	10 MIXER/IF AMPLIFIER A1-1	+10VDC 10.01
2	SIGNAL PROCESSOR		+15VDC	15.06	11 MIXER/IF AMPLIFIER A1-2	+10VDC 10.01
3	SIGNAL PROCESSOR		+15VDC	-15.03	12 LOCAL OSCILLATOR-CH 6	+10 VDC 10.02
4	ANTENNA DRIVE		+5 VDC	4.92	13 LOCAL OSCILLATOR-CH 7	+10 VDC 10.01
5	ANTENNA DRIVE		+15VDC	14.95	14 SPARE	327.67
6	ANTENNA DRIVE		+15VDC	-15.06	15 LOCAL OSCILLATOR-CH 3	+10 VDC 10.06
7	PLO		+15VDC	14.78	16 LOCAL OSCILLATOR-CH 4	+10 VDC 10.08
8	PLO		+15VDC	-15.21	17 LOCAL OSCILLATOR-CH 5	+10 VDC 10.01
9	RECEIVER		+8 VDC	7.91	18 LOCAL OSCILLATOR-CH 8	+10 VDC 10.05
[ 21 ]	UP		[ 22 ]	DOWN		
ENGR OK	POWER		ON CHECKSUM	IN 525B CALC 525B	SA28	218 SA29 414
SELECT BUTTON 2			SCREEN ONLY [ 2 ]	PRINT [ 3 ]	FULL	[ 1 ] RETURN

43-9  
JAL  
11/10/98

FOS A1-03 E1.EXE:43 FULL SCAN MODE P1 10-NOV-98 09:20:07 SCAN NUMBER 216  
 [ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
 [ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
 [ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

ENGINEERING 5 TO 22

5 ANTENNA DRIVE	14.95	14 SPARE	OSCILLATOR-CH 3	+10 VDC	327.67
6 ANTENNA DRIVE	15.06	15 LOCAL	OSCILLATOR-CH 4	+10 VDC	10.06
7 PLO	14.78	16 LOCAL	OSCILLATOR-CH 5	+10 VDC	10.01
8 PLO	15.21	17 LOCAL	OSCILLATOR-CH 8	+10 VDC	10.05
9 RECEIVER	7.91	18 LOCAL	OSCILLATOR-CH 15	+15 VDC	10.99
10 MIXER/IF AMPLIFIER	10.01	19 LOCAL	OSCILLATOR-CH 15	CURRENT	2244.3
11 MIXER/IF AMPLIFIER	10.01	20 A1 QUIET BUS	CURRENT	CURRENT	56.6
12 LOCAL OSCILLATOR-CH 6	10.02	21 A1-1 NOISY POWER BUS	CURRENT	CURRENT	56.6
13 LOCAL OSCILLATOR-CH 7	10.01	22 A1-2 NOISY POWER BUS	CURRENT	CURRENT	56.6
14 UP	DOWN				

ENGR OK POWER ON CHECKSUM IN 525B CALC 525B SA28 219 SA29 416  
 SELECT BUTTON 2 SCREEN ONLY 2 PRINT 3 FULL RETURN

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4.3-9

EOS A1-03 E1-EXE:43 FULL SCAN MODE P1 10-NOV-98 09:21:27 SCAN NUMBER 226  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

# INSTRUMENT STATUS

1 ANTENNA IN FULL SCAN MODE	YES	8 RESET C&DH PROCESSOR	NO
2 ANTENNA IN WARM CAL MODE	NO	9 PLO REDUNDANCY	PLLO#1
3 ANTENNA IN COLD CAL MODE	NO	10 --- BIT 10 SPARE	NO
4 ANTENNA IN NADIR MODE	NO	11 SCANNER 1 POWER	YES
5 COLD CAL. POSITION (LSB)	ZERO	12 SCANNER 2 POWER	YES
6 --- BIT 7 SPARE	NO	13 PLO#1 LOCK	YES
		14 PLO#2 LOCK	YES
		15 ADC LATCHUP FLAG	YES

ENGR OK POWER ON CHECKSUM IN 47C9 CALC 47C9 SA28 229 SA29 435  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

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4.3-10  
*[Signature]*  
11/10/98

EOS	A1-03	E1. EXE: 43	WARM CAL	MODE	P1 10-NOV-98 09:24:55	SCAN	NUMBER
[ 5 ]	SCIENCE	DATA	ELEMENT	388	REFL 1 2ND LOOK POS	12	17051
[ 6 ]	CONTROL/STATUS	ELEMENT	1	ANTENNA IN FULL	SCAN MODE	YES	
[ 7 ]	ENGINEERING	ELEMENT	1	SIGNAL PROCESSOR	+5 VDC	4.95	

[illegible]

ENGR OK POWER ON CHECKSUM IN 53E1 CALC 53E1 SA28 255 SA29 487  
SELECT BUTTON 3 SCREEN ONLY 2 PRINT 3 FULL 1 RETURN

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EOS	A1_03	E1.EXE;43	SCIENCE DATA	10-NOV-98	09:25:03	PAGE	1
ELEMENT	PACKET ID	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE	VALUE
1	1	REFLECTOR 1 POSITION	00001001	572	COLD CAL SAMPLE 17	CH	16603
2	2	REFLECTOR 2 POSITION	00000011	574	REFLECTOR 2 POSITION	CH	96325
3	3	REFLECTOR 1 POS	00000010	576	REFLECTOR 1 POS	CH	96325
4	4	REFLECTOR 2 POS	00000011	578	REFLECTOR 2 POS	CH	96325
5	5	REFLECTOR 1 POS	00000010	580	REFLECTOR 1 POS	CH	96325
6	6	REFLECTOR 2 POS	00000011	582	REFLECTOR 2 POS	CH	96325
7	7	REFLECTOR 1 POS	00000010	584	REFLECTOR 1 POS	CH	96325
8	8	REFLECTOR 2 POS	00000011	586	REFLECTOR 2 POS	CH	96325
11	11	REFLECTOR 1 POSITION	00001001	588	REFLECTOR 1 POSITION	CH	96325
12	12	REFLECTOR 2 POSITION	00000011	590	REFLECTOR 2 POSITION	CH	96325
13	13	REFLECTOR 1 POS	00000010	592	REFLECTOR 1 POS	CH	96325
14	14	REFLECTOR 2 POS	00000011	594	REFLECTOR 2 POS	CH	96325
15	15	REFLECTOR 1 POS	00000010	596	REFLECTOR 1 POS	CH	96325
16	16	REFLECTOR 2 POS	00000011	598	REFLECTOR 2 POS	CH	96325
17	17	REFLECTOR 1 POS	00000010	599	REFLECTOR 1 POS	CH	96325
18	18	REFLECTOR 2 POS	00000011	600	REFLECTOR 2 POS	CH	96325
19	19	REFLECTOR 1 POS	00000010	602	REFLECTOR 1 POS	CH	96325
20	20	REFLECTOR 2 POS	00000011	604	REFLECTOR 2 POS	CH	96325
21	21	REFLECTOR 1 POS	00000010	606	REFLECTOR 1 POS	CH	96325
22	22	REFLECTOR 2 POS	00000011	608	REFLECTOR 2 POS	CH	96325
23	23	REFLECTOR 1 POS	00000010	610	REFLECTOR 1 POS	CH	96325
24	24	REFLECTOR 2 POS	00000011	612	REFLECTOR 2 POS	CH	96325
25	25	REFLECTOR 1 POS	00000010	614	REFLECTOR 1 POS	CH	96325
26	26	REFLECTOR 2 POS	00000011	616	REFLECTOR 2 POS	CH	96325
27	27	REFLECTOR 1 POS	00000010	618	REFLECTOR 1 POS	CH	96325
28	28	REFLECTOR 2 POS	00000011	620	REFLECTOR 2 POS	CH	96325
29	29	REFLECTOR 1 POS	00000010	622	REFLECTOR 1 POS	CH	96325
30	30	REFLECTOR 2 POS	00000011	624	REFLECTOR 2 POS	CH	96325
31	31	REFLECTOR 1 POS	00000010	626	REFLECTOR 1 POS	CH	96325
32	32	REFLECTOR 2 POS	00000011	628	REFLECTOR 2 POS	CH	96325
33	33	REFLECTOR 1 POS	00000010	630	REFLECTOR 1 POS	CH	96325
34	34	REFLECTOR 2 POS	00000011	632	REFLECTOR 2 POS	CH	96325
35	35	REFLECTOR 1 POS	00000010	634	REFLECTOR 1 POS	CH	96325
36	36	REFLECTOR 2 POS	00000011	636	REFLECTOR 2 POS	CH	96325
37	37	REFLECTOR 1 POS	00000010	638	REFLECTOR 1 POS	CH	96325
38	38	REFLECTOR 2 POS	00000011	640	REFLECTOR 2 POS	CH	96325
39	39	REFLECTOR 1 POS	00000010	642	REFLECTOR 1 POS	CH	96325
40	40	REFLECTOR 2 POS	00000011	644	REFLECTOR 2 POS	CH	96325
41	41	REFLECTOR 1 POS	00000010	646	REFLECTOR 1 POS	CH	96325
42	42	REFLECTOR 2 POS	00000011	648	REFLECTOR 2 POS	CH	96325
43	43	REFLECTOR 1 POS	00000010	650	REFLECTOR 1 POS	CH	96325
44	44	REFLECTOR 2 POS	00000011	652	REFLECTOR 2 POS	CH	96325
45	45	REFLECTOR 1 POS	00000010	654	REFLECTOR 1 POS	CH	96325
46	46	REFLECTOR 2 POS	00000011	656	REFLECTOR 2 POS	CH	96325
47	47	REFLECTOR 1 POS	00000010	658	REFLECTOR 1 POS	CH	96325
48	48	REFLECTOR 2 POS	00000011	660	REFLECTOR 2 POS	CH	96325
49	49	REFLECTOR 1 POS	00000010	662	REFLECTOR 1 POS	CH	96325
50	50	REFLECTOR 2 POS	00000011	664	REFLECTOR 2 POS	CH	96325
51	51	REFLECTOR 1 POS	00000010	666	REFLECTOR 1 POS	CH	96325
52	52	REFLECTOR 2 POS	00000011	668	REFLECTOR 2 POS	CH	96325
53	53	REFLECTOR 1 POS	00000010	670	REFLECTOR 1 POS	CH	96325
54	54	REFLECTOR 2 POS	00000011	672	REFLECTOR 2 POS	CH	96325
55	55	REFLECTOR 1 POS	00000010	674	REFLECTOR 1 POS	CH	96325
56	56	REFLECTOR 2 POS	00000011	676	REFLECTOR 2 POS	CH	96325
57	57	REFLECTOR 1 POS	00000010	678	REFLECTOR 1 POS	CH	96325
58	58	REFLECTOR 2 POS	00000011	680	REFLECTOR 2 POS	CH	96325
59	59	REFLECTOR 1 POS	00000010	682	REFLECTOR 1 POS	CH	96325
60	60	REFLECTOR 2 POS	00000011	684	REFLECTOR 2 POS	CH	96325
61	61	REFLECTOR 1 POS	00000010	686	REFLECTOR 1 POS	CH	96325
62	62	REFLECTOR 2 POS	00000011	688	REFLECTOR 2 POS	CH	96325
63	63	REFLECTOR 1 POS	00000010	690	REFLECTOR 1 POS	CH	96325
64	64	REFLECTOR 2 POS	00000011	692	REFLECTOR 2 POS	CH	96325
65	65	REFLECTOR 1 POS	00000010	694	REFLECTOR 1 POS	CH	96325
66	66	REFLECTOR 2 POS	00000011	696	REFLECTOR 2 POS	CH	96325
67	67	REFLECTOR 1 POS	00000010	698	REFLECTOR 1 POS	CH	96325
68	68	REFLECTOR 2 POS	00000011	700	REFLECTOR 2 POS	CH	96325
69	69	REFLECTOR 1 POS	00000010	702	REFLECTOR 1 POS	CH	96325
70	70	REFLECTOR 2 POS	00000011	704	REFLECTOR 2 POS	CH	96325
71	71	REFLECTOR 1 POS	00000010	706	REFLECTOR 1 POS	CH	96325
72	72	REFLECTOR 2 POS	00000011	708	REFLECTOR 2 POS	CH	96325
73	73	REFLECTOR 1 POS	00000010	710	REFLECTOR 1 POS	CH	96325
74	74	REFLECTOR 2 POS	00000011	712	REFLECTOR 2 POS	CH	96325
75	75	REFLECTOR 1 POS	00000010	714	REFLECTOR 1 POS	CH	96325
76	76	REFLECTOR 2 POS	00000011	716	REFLECTOR 2 POS	CH	96325
77	77	REFLECTOR 1 POS	00000010	718	REFLECTOR 1 POS	CH	96325
78	78	REFLECTOR 2 POS	00000011	720	REFLECTOR 2 POS	CH	96325
79	79	REFLECTOR 1 POS	00000010	722	REFLECTOR 1 POS	CH	96325
80	80	REFLECTOR 2 POS	00000011	724	REFLECTOR 2 POS	CH	96325
81	81	REFLECTOR 1 POS	00000010	726	REFLECTOR 1 POS	CH	96325
82	82	REFLECTOR 2 POS	00000011	728	REFLECTOR 2 POS	CH	96325
83	83	REFLECTOR 1 POS	00000010	730	REFLECTOR 1 POS	CH	96325
84	84	REFLECTOR 2 POS	00000011	732	REFLECTOR 2 POS	CH	96325
85	85	REFLECTOR 1 POS	00000010	734	REFLECTOR 1 POS	CH	96325
86	86	REFLECTOR 2 POS	00000011	736	REFLECTOR 2 POS	CH	96325
87	87	REFLECTOR 1 POS	00000010	738	REFLECTOR 1 POS	CH	96325
88	88	REFLECTOR 2 POS	00000011	740	REFLECTOR 2 POS	CH	96325
89	89	REFLECTOR 1 POS	00000010	742	REFLECTOR 1 POS	CH	96325
90	90	REFLECTOR 2 POS	00000011	744	REFLECTOR 2 POS	CH	96325
91	91	REFLECTOR 1 POS	00000010	746	REFLECTOR 1 POS	CH	96325
92	92	REFLECTOR 2 POS	00000011	748	REFLECTOR 2 POS	CH	96325
93	93	REFLECTOR 1 POS	00000010	750	REFLECTOR 1 POS	CH	96325
94	94	REFLECTOR 2 POS	00000011	752	REFLECTOR 2 POS	CH	96325
95	95	REFLECTOR 1 POS	00000010	754	REFLECTOR 1 POS	CH	96325
96	96	REFLECTOR 2 POS	00000011	756	REFLECTOR 2 POS	CH	96325
97	97	REFLECTOR 1 POS	00000010	758	REFLECTOR 1 POS	CH	96325
98	98	REFLECTOR 2 POS	00000011	760	REFLECTOR 2 POS	CH	96325
99	99	REFLECTOR 1 POS	00000010	762	REFLECTOR 1 POS	CH	96325
100	100	REFLECTOR 2 POS	00000011	764	REFLECTOR 2 POS	CH	96325

4.4-7a

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EOS	A1_03	E1.EXE;43	SCIENCE DATA COLD CAL MODE	10-NOV-98	09:25:03	PAGE	2
ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE		
94	REFLECTOR 1 POSITION	7890	672	REFLECTOR 1 POSITION	7890		
96	REFLECTOR 2 POSITION	11111111	774	REFLECTOR 2 POSITION	11111111		
98	REFLECTOR 3 POSITION	11111111	776	REFLECTOR 3 POSITION	11111111		
100	REFLECTOR 4 POSITION	11111111	778	REFLECTOR 4 POSITION	11111111		
102	REFLECTOR 5 POSITION	11111111	780	REFLECTOR 5 POSITION	11111111		
104	REFLECTOR 6 POSITION	11111111	782	REFLECTOR 6 POSITION	11111111		
106	REFLECTOR 7 POSITION	11111111	784	REFLECTOR 7 POSITION	11111111		
108	REFLECTOR 8 POSITION	11111111	786	REFLECTOR 8 POSITION	11111111		
110	REFLECTOR 9 POSITION	11111111	788	REFLECTOR 9 POSITION	11111111		
112	REFLECTOR 10 POSITION	11111111	790	REFLECTOR 10 POSITION	11111111		
114	REFLECTOR 11 POSITION	11111111	792	REFLECTOR 11 POSITION	11111111		
116	REFLECTOR 12 POSITION	11111111	794	REFLECTOR 12 POSITION	11111111		
118	REFLECTOR 13 POSITION	11111111	796	REFLECTOR 13 POSITION	11111111		
120	REFLECTOR 14 POSITION	11111111	798	REFLECTOR 14 POSITION	11111111		
122	REFLECTOR 15 POSITION	11111111	800	REFLECTOR 15 POSITION	11111111		
124	REFLECTOR 16 POSITION	11111111	802	REFLECTOR 16 POSITION	11111111		
126	REFLECTOR 17 POSITION	11111111	804	REFLECTOR 17 POSITION	11111111		
128	REFLECTOR 18 POSITION	11111111	806	REFLECTOR 18 POSITION	11111111		
130	REFLECTOR 19 POSITION	11111111	808	REFLECTOR 19 POSITION	11111111		
132	REFLECTOR 20 POSITION	11111111	810	REFLECTOR 20 POSITION	11111111		
134	REFLECTOR 21 POSITION	11111111	812	REFLECTOR 21 POSITION	11111111		
136	REFLECTOR 22 POSITION	11111111	814	REFLECTOR 22 POSITION	11111111		
138	REFLECTOR 23 POSITION	11111111	816	REFLECTOR 23 POSITION	11111111		
140	REFLECTOR 24 POSITION	11111111	818	REFLECTOR 24 POSITION	11111111		
142	REFLECTOR 25 POSITION	11111111	820	REFLECTOR 25 POSITION	11111111		
144	REFLECTOR 26 POSITION	11111111	822	REFLECTOR 26 POSITION	11111111		
146	REFLECTOR 27 POSITION	11111111	824	REFLECTOR 27 POSITION	11111111		
148	REFLECTOR 28 POSITION	11111111	826	REFLECTOR 28 POSITION	11111111		
150	REFLECTOR 29 POSITION	11111111	828	REFLECTOR 29 POSITION	11111111		
152	REFLECTOR 30 POSITION	11111111	830	REFLECTOR 30 POSITION	11111111		
154	REFLECTOR 31 POSITION	11111111	832	REFLECTOR 31 POSITION	11111111		
156	REFLECTOR 32 POSITION	11111111	834	REFLECTOR 32 POSITION	11111111		
158	REFLECTOR 33 POSITION	11111111	836	REFLECTOR 33 POSITION	11111111		
160	REFLECTOR 34 POSITION	11111111	838	REFLECTOR 34 POSITION	11111111		
162	REFLECTOR 35 POSITION	11111111	840	REFLECTOR 35 POSITION	11111111		
164	REFLECTOR 36 POSITION	11111111	842	REFLECTOR 36 POSITION	11111111		
166	REFLECTOR 37 POSITION	11111111	844	REFLECTOR 37 POSITION	11111111		
168	REFLECTOR 38 POSITION	11111111	846	REFLECTOR 38 POSITION	11111111		
170	REFLECTOR 39 POSITION	11111111	848	REFLECTOR 39 POSITION	11111111		
172	REFLECTOR 40 POSITION	11111111	850	REFLECTOR 40 POSITION	11111111		
174	REFLECTOR 41 POSITION	11111111	852	REFLECTOR 41 POSITION	11111111		
176	REFLECTOR 42 POSITION	11111111	854	REFLECTOR 42 POSITION	11111111		
178	REFLECTOR 43 POSITION	11111111	856	REFLECTOR 43 POSITION	11111111		
180	REFLECTOR 44 POSITION	11111111	858	REFLECTOR 44 POSITION	11111111		
182	REFLECTOR 45 POSITION	11111111	860	REFLECTOR 45 POSITION	11111111		
184	REFLECTOR 46 POSITION	11111111	862	REFLECTOR 46 POSITION	11111111		
186	REFLECTOR 47 POSITION	11111111	864	REFLECTOR 47 POSITION	11111111		
188	REFLECTOR 48 POSITION	11111111	866	REFLECTOR 48 POSITION	11111111		
190	REFLECTOR 49 POSITION	11111111	868	REFLECTOR 49 POSITION	11111111		

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EOS	A1_03	E1.EXE;43	SCIENCE DATA COLD CAL MODE	10-NOV-98	09:25:03	PAGE	3
ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE		
194	REFLECTOR 1 POSITION	174550	772	REFLECTOR 1 POSITION	174550	6	7
196	REFLECTOR 2 POSITION	159360	774	REFLECTOR 2 POSITION	159360	8	9
198	REFL 1 POS	166633	776	REFL 1 POS	166633	10	11
200	REFL 2 POS	169742	778	REFL 2 POS	169742	12	13
202	COLD CAL SAMPLE 7	187297	780	COLD CAL SAMPLE 7	187297	14	15
204		209230	782		209230	16	17
206		68215	784		68215	18	19
208		85276	786		85276	20	21
210		85277	788		85277	22	23
212		81068	790		81068	24	25
214		166215	792		166215	26	27
216		116745	794		116745	28	29
218		116745	796		116745	30	31
220		116745	800		116745	32	33
222		116745	802		116745	34	35
224		116745	804		116745	36	37
226		116745	806		116745	38	39
228		116745	808		116745	40	41
230		116745	810		116745	42	43
232		116745	812		116745	44	45
234		116745	814		116745	46	47
236		116745	816		116745	48	49
238		116745	818		116745	50	51
240		116745	820		116745	52	53
242		116745	822		116745	54	55
244		116745	824		116745	56	57
246		116745	826		116745	58	59
248		116745	828		116745	60	61
250		116745	830		116745	62	63
252		116745	832		116745	64	65
254		116745	834		116745	66	67
256		116745	836		116745	68	69
258		116745	838		116745	70	71
260		116745	840		116745	72	73
262		116745	842		116745	74	75
264		116745	844		116745	76	77
266		116745	846		116745	78	79
268		116745	848		116745	80	81
270		116745	850		116745	82	83
272		116745	852		116745	84	85
274		116745	854		116745	86	87
276		116745	856		116745	88	89
278		116745	858		116745	90	91
280		116745	860		116745	92	93
282		116745	862		116745	94	95
284		116745	864		116745	96	97
286		116745	866		116745	98	99
288		116745	868		116745	100	101
290		116745	870		116745	102	103

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[illegible]

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EOS A1\_03 E1.EXE;43 SCIENCE DATA 10-NOV-98 09:25:03 PAGE 7  
COLD CAL MODE

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ELEMENT	DESCRIPTION	VALUE	TEMPERATURE	DEG C
1090	SCAN MOTOR A1-1	16943	20.95	5
1092	SCAN MOTOR A1-2	5655	21.44	5
1094	FEED HORN A1-1	1755	23.43	4
1096	FEED HORN A1-2	1807	23.53	4
1100	REF MUX A1-1	1920	22.32	8
1102	REF MUX A1-2	1998	22.34	2
1104	LOCAL OSCILLATOR CHANNEL 3	1203	22.40	3
1106	LOCAL OSCILLATOR CHANNEL 4	5533	22.36	1
1108	LOCAL OSCILLATOR CHANNEL 5	1942	22.41	1
1110	LOCAL OSCILLATOR CHANNEL 6	1999	22.90	2
1112	LOCAL OSCILLATOR CHANNEL 7	2014	22.02	1
1114	LOCAL OSCILLATOR CHANNEL 8	1450	22.03	2
1116	PLLO #1	1330	22.38	2
1118	PLLO #2	1442	22.87	7
1120	INTERFACE	1961	22.78	6
1122	MIXER//IFF AMPLIFIER CHANNEL 3	3355	22.91	1
1124	MIXER//IFF AMPLIFIER CHANNEL 4	3585	22.00	0
1126	MIXER//IFF AMPLIFIER CHANNEL 5	3585	22.10	3
1128	MIXER//IFF AMPLIFIER CHANNEL 6	3585	22.04	0
1130	MIXER//IFF AMPLIFIER CHANNEL 7	3585	22.04	0
1132	MIXER//IFF AMPLIFIER CHANNEL 8	3585	22.04	0
1134	MIXER//IFF AMPLIFIER CHANNEL 9	3585	22.04	0
1136	MIXER//IFF AMPLIFIER CHANNEL 10	3585	22.04	0
1138	MIXER//IFF AMPLIFIER CHANNEL 11	3585	22.04	0
1140	MIXER//IFF AMPLIFIER CHANNEL 12	3585	22.04	0
1142	MIXER//IFF AMPLIFIER CHANNEL 13	3585	22.04	0
1144	MIXER//IFF AMPLIFIER CHANNEL 14	3585	22.04	0
1146	MIXER//IFF AMPLIFIER CHANNEL 15	3585	22.04	0
1148	MIXER//IFF AMPLIFIER CHANNEL 16	3585	22.04	0
1150	MIXER//IFF AMPLIFIER CHANNEL 17	3585	22.04	0
1152	MIXER//IFF AMPLIFIER CHANNEL 18	3585	22.04	0
1154	MIXER//IFF AMPLIFIER CHANNEL 19	3585	22.04	0
1156	MIXER//IFF AMPLIFIER CHANNEL 20	3585	22.04	0
1158	MIXER//IFF AMPLIFIER CHANNEL 21	3585	22.04	0
1160	MIXER//IFF AMPLIFIER CHANNEL 22	3585	22.04	0
1162	MIXER//IFF AMPLIFIER CHANNEL 23	3585	22.04	0
1164	MIXER//IFF AMPLIFIER CHANNEL 24	3585	22.04	0
1166	MIXER//IFF AMPLIFIER CHANNEL 25	3585	22.04	0
1168	MIXER//IFF AMPLIFIER CHANNEL 26	3585	22.04	0
1170	MIXER//IFF AMPLIFIER CHANNEL 27	3585	22.04	0
1172	MIXER//IFF AMPLIFIER CHANNEL 28	3585	22.04	0
1174	MIXER//IFF AMPLIFIER CHANNEL 29	3585	22.04	0
1176	MIXER//IFF AMPLIFIER CHANNEL 30	3585	22.04	0
1178	MIXER//IFF AMPLIFIER CHANNEL 31	3585	22.04	0
1180	MIXER//IFF AMPLIFIER CHANNEL 32	3585	22.04	0

# #1

[illegible]

OUTLET BUS CURRENT  
A1-1 NOISY POWER BUS CURRENT  
A1-2 NOISY POWER BUS CURRENT

EOS A1\_03 E1.EXE;43

AZONIX DATA 10-NOV-98 09:25:03 PAGE 9  
COLD CAL MODE

PRT TEMPERATURES  
VARIABLE TARGET

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FIXED TARGET

BASEPLATE

THERMOCOUPLE TEMPERATURES

FIXED TARGET SHROUD

VARIABLE TARGET SHROUD

FIXED TARGET N2

VARIABLE TARGET N2

HEATER N2

FIXED TARGET FLOW METER  
VARIABLE TARGET FLOW METER  
BASEPLATE HEATER N2  
BASEPLATE N2  
BASEPLATE FLOW METER  
ADJUNCT RADIATORS

B-33

NO	A1-1	DEG K
601	2	72.158
602	2	93.530
603	2	93.530
604	2	93.530
605	2	93.530
606	2	93.530
607	2	93.530
608	2	93.530
609	2	93.530
610	2	93.530
611	2	93.530
612	2	93.530
613	2	93.530
614	2	93.530
615	2	93.530
616	2	93.530
617	2	93.530
618	2	93.530
619	2	93.530
620	2	93.530
621	2	93.530
622	2	93.530
623	2	93.530
624	2	93.530
625	2	93.530
626	2	93.530
627	2	93.530
628	2	93.530
629	2	93.530
630	2	93.530
631	2	93.530

NO	A1-1	DEG K
632	2	93.530
633	2	93.530
634	2	93.530
635	2	93.530
636	2	93.530
637	2	93.530
638	2	93.530
639	2	93.530
640	2	93.530
641	2	93.530
642	2	93.530
643	2	93.530
644	2	93.530
645	2	93.530
646	2	93.530
647	2	93.530
648	2	93.530
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650	2	93.530
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664	2	93.530
665	2	93.530
666	2	93.530
667	2	93.530
668	2	93.530
669	2	93.530
670	2	93.530
671	2	93.530
672	2	93.530
673	2	93.530
674	2	93.530
675	2	93.530
676	2	93.530
677	2	93.530
678	2	93.530
679	2	93.530
680	2	93.530
681	2	93.530
682	2	93.530
683	2	93.530
684	2	93.530
685	2	93.530
686	2	93.530
687	2	93.530
688	2	93.530
689	2	93.530
690	2	93.530
691	2	93.530
692	2	93.530
693	2	93.530
694	2	93.530
695	2	93.530
696	2	93.530
697	2	93.530
698	2	93.530
699	2	93.530
700	2	93.530

FOS A1-03 E1. EXE:43 WARM CAL MODE P1 10-NOV-98 09:25:27 SCAN NUMBER 19  
 [ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 17051  
 [ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
 [ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

RADIOMETRIC DATA

BEAM POSITION 1

CH	DATA	CH	DATA
3	16067	8	16957
4	16876	9	16631
5	16209	10	16950
6	17454	11	18747
7	15949	12	18911

[ 22 ] DOWN

[ 21 ] UP

ENGR OK POWER  
 SELECT BUTTON 2

ON CHECKSUM IN 5007 CALC 5007 FULL SA28 259 SA29 495  
 SCREEN ONLY [ 2 ] PRINT [ 3 ] RETURN [ 1 ]

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 11/10/98

FOS A1-03 E1 EXE:43 WARM CAL MODE P1 10-NOV-98 09:27:19 SCAN NUMBER 33  
 [ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOCK POS 12 17051  
 [ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
 [ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

RADIOMETRIC DATA

BP	DATA	BP	DATA	BP	DATA
1	16059	9	16061	17	16059
2	16057	10	16066	18	16052
3	16057	11	16058	19	16022
4	16063	12	16058	20	16060
5	16068	13	16064	21	16039
6	16065	14	16060	22	16063
7	16064	15	16053	23	16059
8	16062	16	16055	24	16059
		22	DOWN		WC

[ 21 ] UP

ENGR OK POWER ON CHECKSUM IN 418B CALC 418B SA28 273 SA29 523  
 SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

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44-7e

*[Handwritten Signature]* 11/10/98

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EOS  A1-03 E1.EXE:43 WARM CAL MODE          P1 10-NOV-98 09:27:51 SCAN NUMBER  37
[ 5 ] SCIENCE DATA ELEMENT 388            REFL 1 2ND LOOK POS 12 17051
[ 6 ] CONTROL/STATUS ELEMENT 1              ANTENNA IN FULL SCAN MODE YES
[ 7 ] ENGINEERING ELEMENT 1                 SIGNAL PROCESSOR  +5 VDC  4.95

BP LOOK 1 LOOK 2 BP LOOK 1 LOOK 2 BP LOOK 1 LOOK 2 BP LOOK 1 LOOK 2
1  8525 8525 9 8525 8525 17 8525 8525 25 8525 8525 5 8525 8525
2  8525 8525 10 8525 8525 18 8525 8525 25 8525 8525 5 8525 8525
3  8525 8525 11 8525 8525 19 8525 8525 25 8525 8525 5 8525 8525
4  8525 8525 12 8525 8525 20 8525 8525 25 8525 8525 5 8525 8525
5  8525 8525 13 8525 8525 21 8525 8525 25 8525 8525 5 8525 8525
6  8525 8525 14 8525 8525 22 8525 8525 25 8525 8525 5 8525 8525
7  8525 8525 15 8525 8525 23 8525 8525 25 8525 8525 5 8525 8525
8  8525 8525 16 8525 8525 24 8525 8525 25 8525 8525 5 8525 8525
[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN 3DC1 CALC 3DC1 FULL SA28 276 SA29 530
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] RETURN

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44-79 11/10/98



FOS A1-03 E1. EXE:43 WARM CAL MODE P1 10-NOV-98 09:27:59 SCAN NUMBER 38  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 17051  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

REFLECTOR POSITIONS 2  
BP LOOK 1 LOOK 2 BP LOOK 1 LOOK 2 BP LOOK 1 LOOK 2  
1 8177 8177 9 8177 8177 17 8176 8177 25 8177 8176  
2 8176 8177 10 8177 8177 18 8177 8177 26 8177 8177  
3 8177 8177 11 8177 8177 19 8177 8177 27 8177 8177  
4 8177 8177 12 8177 8177 20 8177 8177 28 8177 8177  
5 8177 8177 13 8177 8177 21 8177 8177 29 8177 8177  
6 8177 8177 14 8177 8177 22 8177 8177 30 8177 8177  
7 8177 8177 15 8177 8177 23 8177 8177 OE  
8 8177 8177 16 8177 8177 24 8177 8177 OE  
[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN 3AC9 CALC 3AC9 SA28 278 SA29 533  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

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4,4-79

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EOS  A1-03 E1.EXE:43 WARM CAL MODE          P1 10-NOV-98 09:28:47 SCAN NUMBER  44
[ 5 ] SCIENCE DATA ELEMENT 388            REFL 1 2ND LOOK POS 12 17051
[ 6 ] CONTROL/STATUS ELEMENT 1              ANTENNA IN FULL SCAN MODE YES
[ 7 ] ENGINEERING ELEMENT 1                 SIGNAL PROCESSOR +5 VDC 4.95

NO  SCIENCE DATA TEMPERATURES 1 TO 16  DATA TEMP C
    16927 20.92 9 LO CHANNEL 5 19787 26.85
    17579 21.46 10 LO CHANNEL 6 19564 25.49
    17689 22.70 11 LO CHANNEL 7 19386 25.84
    18252 23.80 12 LO CHANNEL 8 20228 27.57
    18761 24.59 13 LO CHANNEL 15 20343 27.32
    19454 25.99 14 PLLO #1 21538 24.44
    20233 27.74 15 S.P. (1553 INTF) 14703 29.97
    20612 27.77 16 S.P. (1553 INTF) 14703 29.73
    [ 21 ] UP [ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN 369F CALC 369F SA28 283 SA29 544
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL RETURN
  
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4.4-7i  
J. A. [Signature] 11/10/98

EOS A1-03 E1 . EXE. 43 WARM CAL MODE P1 10-NOV-98 09:28:47 SCAN NUMBER 44  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 17051  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

NO SCIENCE DATA TEMPERATURES 17 TO 32 DATA TEMP C 38 / 101  
17 MIXER IF CH 3 19668 26.29 25 IF AMP CH 11/14 19868 26.51  
18 MIXER IF CH 4 19865 26.31 26 IF AMP CH 9 10 20015 26.31  
19 MIXER IF CH 5 19823 26.14 27 IF AMP CH 10 19886 26.54  
20 MIXER IF CH 6 19044 25.14 28 IF AMP CH 11 19105 24.91  
21 MIXER IF CH 7 18853 25.33 29 DC/DC CONVERTER 22410 30.98  
22 MIXER IF CH 8 19745 26.34 30 IF AMP CH 13 18729 23.10  
23 MIXER IF CH 9 18513 24.34 31 IF AMP CH 14 19085 25.10  
24 MIXER IF CH 10 20112 27.39 32 IF AMP CH 12 18867 24.47  
[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN 369F CALC 369F SA28 284 SA29 545  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

4.4-7c

EOS A1-03 E1. EXE:43 WARM CAL MODE P1 10-NOV-98 09:28:55 SCAN NUMBER 45  
 [ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 17051  
 [ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
 [ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

NO	SCIENCE DATA	TEMP C	TEMP C	DATA	TEMP C
31	IF AMP CH 14	25.12	21.09	4 22024	21.08
32	IF AMP CH 12	24.48	21.08	4 22217	21.47
33	RF SHLEF A1-1	26.03	21.47	4 22473	21.46
34	RF SHLEF A1-2	23.24	21.46	4 22524	21.37
35	DETECTOR/PREAMP	20.99	21.37	4 22538	21.46
36	A1-1 WARM LOAD 1	21.07	21.46	4 22532	
37	A1-1 WARM LOAD 2	21.11		4 22532	
38	A1-1 WARM LOAD 3	22.11		4 25260	
39	A1-1 WARM LOAD				
40	A1-1 WARM LOAD				
41	A1-2 WARM LOAD				
42	A1-2 WARM LOAD				
43	A1-2 WARM LOAD				
44	A1-2 WARM LOAD				
45	A1-2 WARM LOAD				
46	THERMAL REFERENCE				

ENGR OK POWER ON CHECKSUM IN 38C3 CAL C 38C3 SA28 285 SA29 547  
 SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

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EOS A1-03 E1.EXE:43 WARM CAL MODE P1 10-NOV-98 09:32:07 SCAN NUMBER 2  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 17051  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

ENGINEERING 1 TO 18

1 SIGNAL PROCESSOR  
2 SIGNAL PROCESSOR  
3 SIGNAL PROCESSOR  
4 ANTENNA DRIVE  
5 ANTENNA DRIVE  
6 ANTENNA DRIVE  
7 PLO  
8 PLO  
9 RECEIVER  
[ 21 ] UP  
+5 VDC 4.95 10 MIXER/IF AMPLIFIER A1-1 +10VDC 10.01  
+15VDC 15.06 11 MIXER/IF AMPLIFIER A1-2 +10VDC 10.01  
-15VDC -15.03 12 LOCAL OSCILLATOR-CH 2 +10 VDC 10.02  
+5 VDC 4.92 13 LOCAL OSCILLATOR-CH 6 +10 VDC 10.01  
+15VDC 14.95 14 SPARE 327.67  
-15VDC -14.78 15 LOCAL OSCILLATOR-CH 3 +10 VDC 10.06  
+8 VDC -15.21 16 LOCAL OSCILLATOR-CH 4 +10 VDC 10.08  
[ 22 ] DOWN 17 LOCAL OSCILLATOR-CH 5 +10 VDC 10.01  
18 LOCAL OSCILLATOR-CH 8 +10 VDC 10.05

ENGR OK POWER ON CHECKSUM IN 237D CALC 237D SA28 309 SA29 596  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

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4.4-9  
J. W. Dean  
11/10/98

404-9  
41/101

FOS	A1-03 E1. EXE.43	WARM CAL MODE	P1 10-NOV-98 09:32:16	SCAN NUMBER	3
[ 5 ]	SCIENCE DATA	ELEMENT 388	REFL 1 2ND LOOK POS 12	17051	
[ 6 ]	CONTROL/STATUS	ELEMENT 1	ANTENNA IN FULL SCAN MODE	YES	
[ 7 ]	ENGINEERING	ELEMENT 1	SIGNAL PROCESSOR	+5 VDC	4.95

ENGINEERING 5 TO 22

5 ANTENNA DRIVE	14.94	14 SPARE	OSCILLATOR-CH 3	+10 VDC	327.67
6 ANTENNA DRIVE	-15.06	15 LOCAL	OSCILLATOR-CH 4	+10 VDC	10.06
7 PLO	-14.78	16 LOCAL	OSCILLATOR-CH 5	+10 VDC	10.08
8 PLO	-15.21	17 LOCAL	OSCILLATOR-CH 8	+10 VDC	10.01
9 RECEIVER	-17.31	18 LOCAL	OSCILLATOR-CH 15	+15 VDC	10.05
10 MIXER/IF AMPLIFIER	10.01	19 LOCAL	OSCILLATOR-CH 15	+15 VDC	14.99
11 MIXER/IF AMPLIFIER	10.01	20 A1 QUIET BUS CURRENT	CURRENT		2250.5
12 LOCAL OSCILLATOR-CH 6	10.02	21 A1 -1 NOISY POWER BUS	CURRENT		0.2
13 LOCAL OSCILLATOR-CH 7	10.01	22 A1 -2 NOISY POWER BUS	CURRENT		0.2
1 21 ] UP					

ENGR OK POWER ON CHECKSUM IN 2185 CALC 2185 SA28 310 SA29 597  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

EOS A1-03 E1-EXE:43 WARM CAL MODE P1 10-NOV-98 09:30:07 SCAN NUMBER 54  
[ 5 ] SCIENCE DATA ELEMENT 388 REF1 1 2ND LOOK POS 12 17051  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR 45 VDC 4.95

# INSTRUMENT STATUS

1 ANTENNA IN FULL SCAN MODE	NO	8 RESET C&DH PROCESSOR	NO	42 / 101
2 ANTENNA IN WARM CAL MODE	YES	9 PLO REDUNDANCY	PLLO#1	
3 ANTENNA IN COLD CAL MODE	NO	10 --- BIT 10 SPARE	NO	
4 ANTENNA IN NADIR MODE	NO	11 SCANNER 1 POWER	YES	
5 COLD CAL. POSITION (LSB)	ZERO	12 SCANNER 2 POWER	YES	
6 COLD CAL. POSITION (MSB)	ZERO	13 PLO#1 LOCK	YES	
7 --- BIT 7 SPARE	NO	14 PLO#2 LOCK	YES	
		15 ADC LATCHUP FLAG	YES	

ENGR OK POWER ON CHECKSUM IN 2EE9 CALC 2EE9 SA28 294 SA29 565  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

44-10 11/10/98  
*[Signature]*







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4.5-7a  
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EOS	A1_03	E1.EXE;43	SCIENCE DATA NADIR MODE	10-NOV-98	09:35:42	PAGE	3
ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE		
194	REFLECTOR 1 POSITION	17413	67	CH	17410		
196	REFLECTOR 2 POSITION	15873	89	CH	15886		
198	REFL 1 POS	11658	90	CH	11658		
200	REFL 2 POS	16890	10	CH	11876		
202	NADIR SAMPLE	18772	11	CH	11891		
204		20733	12	CH	12077		
206		16776	13	CH	12077		
208		43771	14	CH	14171		
210		43771	15	CH	14171		
212		16800	16	CH	16777		
214		11674	17	CH	11674		
216		11674	18	CH	11674		
218		11674	19	CH	11674		
220		11674	20	CH	11674		
222		11674	21	CH	11674		
224		11674	22	CH	11674		
226		11674	23	CH	11674		
228		11674	24	CH	11674		
230		11674	25	CH	11674		
232		11674	26	CH	11674		
234		11674	27	CH	11674		
236		11674	28	CH	11674		
238		11674	29	CH	11674		
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244		11674	32	CH	11674		
246		11674	33	CH	11674		
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256		11674	38	CH	11674		
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260		11674	40	CH	11674		
262		11674	41	CH	11674		
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292		11674	56	CH	11674		
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310		11674	65	CH	11674		
312		11674	66	CH	11674		
314		11674	67	CH	11674		
316		11674	68	CH	11674		
318		11674	69	CH	11674		
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322		11674	71	CH	11674		
324		11674	72	CH	11674		
326		11674	73	CH	11674		
328		11674	74	CH	11674		
330		11674	75	CH	11674		
332		11674	76	CH	11674		
334		11674	77	CH	11674		
336		11674	78	CH	11674		
338		11674	79	CH	11674		
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364		11674	92	CH	11674		
366		11674	93	CH	11674		
368		11674	94	CH	11674		
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378		11674	99	CH	11674		
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382		11674	101	CH	11674		
384		11674	102	CH	11674		
386		11674	103	CH	11674		
388		11674	104	CH	11674		
390		11674	105	CH	11674		
392		11674	106	CH	11674		
394		11674	107	CH	11674		
396		11674	108	CH	11674		
398		11674	109	CH	11674		
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410		11674	115	CH	11674		
412		11674	116	CH	11674		
414		11674	117	CH	11674		
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418		11674	119	CH	11674		
420		11674	120	CH	11674		
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424		11674	122	CH	11674		
426		11674	123	CH	11674		
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430		11674	125	CH	11674		
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434		11674	127	CH	11674		
436		11674	128	CH	11674		
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444		11674	132	CH	11674		
446		11674	133	CH	11674		
448		11674	134	CH	11674		
450		11674	135	CH	11674		
452		11674	136	CH	11674		
454		11674	137	CH	11674		
456		11674	138	CH	11674		
458		11674	139	CH	11674		
460		11674	140	CH	11674		
462		11674	141	CH	11674		
464		11674	142	CH	11674		
466		11674	143	CH	11674		
468		11674	144	CH	11674		
470		11674	145	CH	11674		
472		11674	146	CH	11674		
474		11674	147	CH	11674		
476		11674	148	CH	11674		
478		11674	149	CH	11674		
480		11674	150	CH	11674		
482		11674	151	CH	11674		
484		11674	152	CH	11674		
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488		11674	154	CH	11674		
490		11674	155	CH	11674		
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494		11674	157	CH	11674		
496		11674	158	CH	11674		
498		11674	159	CH	11674		
500		11674	160	CH	11674		

[illegible]

4.5-7a  
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EOS	A1_03	E1.EXE;43	SCIENCE DATA NADIR MODE	10-NOV-98	09:35:42	PAGE	5
ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE		
394	REFLECTOR 1 POSITION	16797	972	REFLECTOR 1 POSITION	16797		
396	REFLECTOR 2 POSITION	11118	974	REFLECTOR 2 POSITION	11118		
398	REFLECTOR 1 POS 13	11744	976	REFLECTOR 1 POS 13	11744		
400	REFLECTOR 2 POS 13	11588	978	REFLECTOR 2 POS 13	11588		
402	REFLECTOR 1 POS 14	11688	980	REFLECTOR 1 POS 14	11688		
404	REFLECTOR 2 POS 14	11891	982	REFLECTOR 2 POS 14	11891		
406	REFLECTOR 1 POS 15	11972	984	REFLECTOR 1 POS 15	11972		
408	REFLECTOR 2 POS 15	12067	986	REFLECTOR 2 POS 15	12067		
410	REFLECTOR 1 POS 16	13417	988	REFLECTOR 1 POS 16	13417		
412	REFLECTOR 2 POS 16	13721	990	REFLECTOR 2 POS 16	13721		
414	REFLECTOR 1 POS 17	14022	992	REFLECTOR 1 POS 17	14022		
416	REFLECTOR 2 POS 17	14175	994	REFLECTOR 2 POS 17	14175		
418	REFLECTOR 1 POS 18	14277	996	REFLECTOR 1 POS 18	14277		
420	REFLECTOR 2 POS 18	14377	998	REFLECTOR 2 POS 18	14377		
422	REFLECTOR 1 POS 19	14477	1000	REFLECTOR 1 POS 19	14477		
424	REFLECTOR 2 POS 19	14577	1002	REFLECTOR 2 POS 19	14577		
426	REFLECTOR 1 POS 20	14677	1004	REFLECTOR 1 POS 20	14677		
428	REFLECTOR 2 POS 20	14777	1006	REFLECTOR 2 POS 20	14777		
430	REFLECTOR 1 POS 21	14877	1008	REFLECTOR 1 POS 21	14877		
432	REFLECTOR 2 POS 21	14977	1010	REFLECTOR 2 POS 21	14977		
434	REFLECTOR 1 POS 22	15077	1012	REFLECTOR 1 POS 22	15077		
436	REFLECTOR 2 POS 22	15177	1014	REFLECTOR 2 POS 22	15177		
438	REFLECTOR 1 POS 23	15277	1016	REFLECTOR 1 POS 23	15277		
440	REFLECTOR 2 POS 23	15377	1018	REFLECTOR 2 POS 23	15377		
442	REFLECTOR 1 POS 24	15477	1020	REFLECTOR 1 POS 24	15477		
444	REFLECTOR 2 POS 24	15577	1022	REFLECTOR 2 POS 24	15577		
446	REFLECTOR 1 POS 25	15677	1024	REFLECTOR 1 POS 25	15677		
448	REFLECTOR 2 POS 25	15777	1026	REFLECTOR 2 POS 25	15777		
450	REFLECTOR 1 POS 26	15877	1028	REFLECTOR 1 POS 26	15877		
452	REFLECTOR 2 POS 26	15977	1030	REFLECTOR 2 POS 26	15977		
454	REFLECTOR 1 POS 27	16077	1032	REFLECTOR 1 POS 27	16077		
456	REFLECTOR 2 POS 27	16177	1034	REFLECTOR 2 POS 27	16177		
458	REFLECTOR 1 POS 28	16277	1036	REFLECTOR 1 POS 28	16277		
460	REFLECTOR 2 POS 28	16377	1038	REFLECTOR 2 POS 28	16377		
462	REFLECTOR 1 POS 29	16477	1040	REFLECTOR 1 POS 29	16477		
464	REFLECTOR 2 POS 29	16577	1042	REFLECTOR 2 POS 29	16577		
466	REFLECTOR 1 POS 30	16677	1044	REFLECTOR 1 POS 30	16677		
468	REFLECTOR 2 POS 30	16777	1046	REFLECTOR 2 POS 30	16777		
470	REFLECTOR 1 POS 31	16877	1048	REFLECTOR 1 POS 31	16877		
472	REFLECTOR 2 POS 31	16977	1050	REFLECTOR 2 POS 31	16977		
474	REFLECTOR 1 POS 32	17077	1052	REFLECTOR 1 POS 32	17077		
476	REFLECTOR 2 POS 32	17177	1054	REFLECTOR 2 POS 32	17177		
478	REFLECTOR 1 POS 33	17277	1056	REFLECTOR 1 POS 33	17277		
480	REFLECTOR 2 POS 33	17377	1058	REFLECTOR 2 POS 33	17377		
482	REFLECTOR 1 POS 34	17477	1060	REFLECTOR 1 POS 34	17477		
484	REFLECTOR 2 POS 34	17577	1062	REFLECTOR 2 POS 34	17577		
486	REFLECTOR 1 POS 35	17677	1064	REFLECTOR 1 POS 35	17677		
488	REFLECTOR 2 POS 35	17777	1066	REFLECTOR 2 POS 35	17777		
490	REFLECTOR 1 POS 36	17877	1068	REFLECTOR 1 POS 36	17877		
492	REFLECTOR 2 POS 36	17977	1070	REFLECTOR 2 POS 36	17977		
494	REFLECTOR 1 POS 37	18077	1072	REFLECTOR 1 POS 37	18077		
496	REFLECTOR 2 POS 37	18177	1074	REFLECTOR 2 POS 37	18177		
498	REFLECTOR 1 POS 38	18277	1076	REFLECTOR 1 POS 38	18277		
500	REFLECTOR 2 POS 38	18377	1078	REFLECTOR 2 POS 38	18377		
502	REFLECTOR 1 POS 39	18477	1080	REFLECTOR 1 POS 39	18477		
504	REFLECTOR 2 POS 39	18577	1082	REFLECTOR 2 POS 39	18577		
506	REFLECTOR 1 POS 40	18677	1084	REFLECTOR 1 POS 40	18677		
508	REFLECTOR 2 POS 40	18777	1086	REFLECTOR 2 POS 40	18777		
510	REFLECTOR 1 POS 41	18877	1088	REFLECTOR 1 POS 41	18877		
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514	REFLECTOR 1 POS 42	19077	1092	REFLECTOR 1 POS 42	19077		
516	REFLECTOR 2 POS 42	19177	1094	REFLECTOR 2 POS 42	19177		
518	REFLECTOR 1 POS 43	19277	1096	REFLECTOR 1 POS 43	19277		
520	REFLECTOR 2 POS 43	19377	1098	REFLECTOR 2 POS 43	19377		
522	REFLECTOR 1 POS 44	19477	1100	REFLECTOR 1 POS 44	19477		
524	REFLECTOR 2 POS 44	19577	1102	REFLECTOR 2 POS 44	19577		
526	REFLECTOR 1 POS 45	19677	1104	REFLECTOR 1 POS 45	19677		
528	REFLECTOR 2 POS 45	19777	1106	REFLECTOR 2 POS 45	19777		
530	REFLECTOR 1 POS 46	19877	1108	REFLECTOR 1 POS 46	19877		
532	REFLECTOR 2 POS 46	19977	1110	REFLECTOR 2 POS 46	19977		
534	REFLECTOR 1 POS 47	20077	1112	REFLECTOR 1 POS 47	20077		
536	REFLECTOR 2 POS 47	20177	1114	REFLECTOR 2 POS 47	20177		
538	REFLECTOR 1 POS 48	20277	1116	REFLECTOR 1 POS 48	20277		
540	REFLECTOR 2 POS 48	20377	1118	REFLECTOR 2 POS 48	20377		
542	REFLECTOR 1 POS 49	20477	1120	REFLECTOR 1 POS 49	20477		
544	REFLECTOR 2 POS 49	20577	1122	REFLECTOR 2 POS 49	20577		
546	REFLECTOR 1 POS 50	20677	1124	REFLECTOR 1 POS 50	20677		
548	REFLECTOR 2 POS 50	20777	1126	REFLECTOR 2 POS 50	20777		
550	REFLECTOR 1 POS 51	20877	1128	REFLECTOR 1 POS 51	20877		
552	REFLECTOR 2 POS 51	20977	1130	REFLECTOR 2 POS 51	20977		
554	REFLECTOR 1 POS 52	21077	1132	REFLECTOR 1 POS 52	21077		
556	REFLECTOR 2 POS 52	21177	1134	REFLECTOR 2 POS 52	21177		
558	REFLECTOR 1 POS 53	21277	1136	REFLECTOR 1 POS 53	21277		
560	REFLECTOR 2 POS 53	21377	1138	REFLECTOR 2 POS 53	21377		
562	REFLECTOR 1 POS 54	21477	1140	REFLECTOR 1 POS 54	21477		
564	REFLECTOR 2 POS 54	21577	1142	REFLECTOR 2 POS 54	21577		
566	REFLECTOR 1 POS 55	21677	1144	REFLECTOR 1 POS 55	21677		
568	REFLECTOR 2 POS 55	21777	1146	REFLECTOR 2 POS 55	21777		
570	REFLECTOR 1 POS 56	21877	1148	REFLECTOR 1 POS 56	21877		
572	REFLECTOR 2 POS 56	21977	1150	REFLECTOR 2 POS 56	21977		
574	REFLECTOR 1 POS 57	22077	1152	REFLECTOR 1 POS 57	22077		
576	REFLECTOR 2 POS 57	22177	1154	REFLECTOR 2 POS 57	22177		
578	REFLECTOR 1 POS 58	22277	1156	REFLECTOR 1 POS 58	22277		
580	REFLECTOR 2 POS 58	22377	1158	REFLECTOR 2 POS 58	22377		
582	REFLECTOR 1 POS 59	22477	1160	REFLECTOR 1 POS 59	22477		
584	REFLECTOR 2 POS 59	22577	1162	REFLECTOR 2 POS 59	22577		
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588	REFLECTOR 2 POS 60	22777	1166	REFLECTOR 2 POS 60	22777		
590	REFLECTOR 1 POS 61	22877	1168	REFLECTOR 1 POS 61	22877		
592	REFLECTOR 2 POS 61	22977	1170	REFLECTOR 2 POS 61	22977		
594	REFLECTOR 1 POS 62	23077	1172	REFLECTOR 1 POS 62	23077		
596	REFLECTOR 2 POS 62	23177	1174	REFLECTOR 2 POS 62	23177		
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600	REFLECTOR 2 POS 63	23377	1178	REFLECTOR 2 POS 63	23377		
602	REFLECTOR 1 POS 64	23477	1180	REFLECTOR 1 POS 64	23477		
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608	REFLECTOR 2 POS 65	23777	1186	REFLECTOR 2 POS 65	23777		
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612	REFLECTOR 2 POS 66	23977	1190	REFLECTOR 2 POS 66	23977		
614	REFLECTOR 1 POS 67	24077	1192	REFLECTOR 1 POS 67	24077		
616	REFLECTOR 2 POS 67	24177	1194	REFLECTOR 2 POS 67	24177		
618	REFLECTOR 1 POS 68	24277	1196	REFLECTOR 1 POS 68	24277		
620	REFLECTOR 2 POS 68	24377	1198	REFLECTOR 2 POS 68	24377		
622	REFLECTOR 1 POS 69	24477	1200	REFLECTOR 1 POS 69	24477		
624	REFLECTOR 2 POS 69	24577	1202	REFLECTOR 2 POS 69	24577		
626	REFLECTOR 1 POS 70	24677	1204	REFLECTOR 1 POS 70	24677		
628	REFLECTOR 2 POS 70	24777	1206	REFLECTOR 2 POS 70	24777		
630	REFLECTOR 1 POS 71	24877	1208	REFLECTOR 1 POS 71	24877		
632	REFLECTOR 2 POS 71	24977	1210	REFLECTOR 2 POS 71	24977		
634	REFLECTOR 1 POS 72	25077	1212	REFLECTOR 1 POS 72	25077		
636	REFLECTOR 2 POS 72	25177	1214	REFLECTOR 2 POS 72	25177		
638	REFLECTOR 1 POS 73	25277	1216	REFLECTOR 1 POS 73	25277		
640	REFLECTOR 2 POS 73	25377	1218	REFLECTOR 2 POS 73	25377		
642	REFLECTOR 1 POS 74	25477	1220	REFLECTOR 1 POS 74	25477		
644	REFLECTOR 2 POS 74	25577	1222	REFLECTOR 2 POS 74	25577		
646	REFLECTOR 1 POS 75	25677	1224	REFLECTOR 1 POS 75	25677		
648	REFLECTOR 2 POS 75	25777	1226	REFLECTOR 2 POS 75	25777		
650	REFLECTOR 1 POS 76	25877	1228	REFLECTOR 1 POS 76	25877		
652	REFLECTOR 2 POS 76	25977	1230	REFLECTOR 2 POS 76	25977		
654	REFLECTOR 1 POS 77	26077	1232	REFLECTOR 1 POS 77	26077		
656	REFLECTOR 2 POS 77	26177	1234	REFLECTOR 2 POS 77	26177		
658	REFLECTOR 1 POS 78	26277	1236	REFLECTOR 1 POS 78	26277		
660	REFLECTOR 2 POS 78	26377	1238	REFLECTOR 2 POS 78	26377		
662	REFLECTOR 1 POS 79	26477	1240	REFLECTOR 1 POS 79	26477		
664	REFLECTOR 2 POS 79	26577	1242	REFLECTOR 2 POS 79	26577		
666	REFLECTOR 1 POS 80	26677	1244	REFLECTOR 1 POS 80	26677		
668	REFLECTOR 2 POS 80	26777	1246	REFLECTOR 2 POS 80	26777		
670	REFLECTOR 1 POS 81	26877	1248	REFLECTOR 1 POS 81	26877		
672	REFLECTOR 2 POS 81	26977	1250	REFLECTOR 2 POS 81	26977		
674	REFLECTOR 1 POS 82	27077	1252	REFLECTOR 1 POS 82	27077		
676	REFLECTOR 2 POS 82	27177	1254	REFLECTOR 2 POS 82	27177		
678	REFLECTOR 1 POS 83	27277	1256	REFLECTOR 1 POS 83	27277		
680	REFLECTOR 2 POS 83	27377	1258	REFLECTOR 2 POS 83	27377		
682	REFLECTOR 1 POS 84	27477	1260	REFLECTOR 1 POS 84	27477		
684	REFLECTOR 2 POS 84	27577	1262	REFLECTOR 2 POS 84	27577		
686	REFLECTOR 1 POS 85	27677	1264	REFLECTOR 1 POS 85	27677		
688	REFLECTOR 2 POS 85	27777	1266	REFLECTOR 2 POS 85	27777		
690	REFLECTOR 1 POS 86	27877	1268	REFLECTOR 1 POS 86	27877		
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694	REFLECTOR 1 POS 87	28077	1272	REFLECTOR 1 POS 87	28077		
696	REFLECTOR 2 POS 87	28177	1274	REFLECTOR 2 POS 87	28177		
698	REFLECTOR 1 POS 88	28277	1276	REFLECTOR 1 POS 88	28277		
700	REFLECTOR 2 POS 88	28377	1278	REFLECTOR 2 POS 88	28377		
702							

EOS	A1_03	E1.EXE;43	SCIENCE DATA NADIR MODE	10-NOV-98	09:35:42	PAGE	6
ELEMENT	NADIR SAMPLE	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE	VALUE
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496			4			8	0
498			5			9	0
500			6			0	0
502			7			1	0
504			8			2	0
506			9			3	0
508			0			4	0
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512			2			6	0
514			3			7	0
516			4			8	0
518			5			9	0
520			6			0	0
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526			9			3	0
528			0			4	0
530			1			5	0
532			2			6	0
534			3			7	0
536			4			8	0
538			5			9	0
540			6			0	0
542			7			1	0
544			8			2	0
546			9			3	0
548			0			4	0
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556			4			8	0
558			5			9	0
560			6			0	0
562			7			1	0
564			8			2	0
566			9			3	0
568			0			4	0
570			1			5	0
572			2			6	0
574			3			7	0
576			4			8	0
578			5			9	0
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590			1			5	0
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614			3			7	0
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626			9			3	0
628			0			4	0
630			1			5	0
632			2			6	0
634			3			7	0
636			4			8	0
638			5			9	0
640			6			0	0
642			7			1	0
644			8			2	0
646			9			3	0
648			0			4	0
650			1			5	0
652			2			6	0
654			3			7	0
656			4			8	0
658			5			9	0
660			6			0	0
662			7			1	0
664			8			2	0
666			9			3	0
668			0			4	0
670			1			5	0
672			2			6	0
674			3			7	0
676			4			8	0
678			5			9	0
680			6			0	0
682			7			1	0
684			8			2	0
686			9			3	0
688			0			4	0
690			1			5	0
692			2			6	0
694			3			7	0
696			4			8	0
698			5			9	0
700			6			0	0
702			7			1	0
704			8			2	0
706			9			3	0
708			0			4	0
710			1			5	0
712			2			6	0
714			3			7	0
716			4			8	0
718			5			9	0
720			6			0	0
722			7			1	0
724			8			2	0
726			9			3	0
728			0			4	0
730			1			5	0
732			2			6	0
734			3			7	0
736			4			8	0
738			5			9	0
740			6			0	0
742			7			1	0
744			8			2	0
746			9			3	0
748			0			4	0
750			1			5	0
752			2			6	0
754			3			7	0
756			4			8	0
758			5			9	0
760			6			0	0
762			7			1	0
764			8			2	0
766			9			3	0
768			0			4	0
770			1			5	0
772			2			6	0
774			3			7	0
776			4			8	0
778			5			9	0
780			6			0	0
782			7			1	0
784			8			2	0
786			9			3	0
788			0			4	0
790			1			5	0
792			2			6	0
794			3			7	0
796			4			8	0
798			5			9	0
800			6			0	0
802			7			1	0
804			8			2	0
806			9			3	0
808			0			4	0
810			1			5	0
812			2			6	0
814			3			7	0
816			4			8	0
818			5			9	0
820			6			0	0
822			7			1	0
824			8			2	0
826			9			3	0
828			0			4	0
830			1			5	0
832			2			6	0
834			3			7	0
836			4			8	0
838			5			9	0
840			6			0	0
842			7			1	0
844			8			2	0
846			9			3	0
848			0			4	0
850			1			5	0
852			2			6	0
854			3			7	0
856			4			8	0
858			5			9	0
860			6			0	0
862			7			1	0
864			8			2	0
866			9			3	0
868			0			4	0
870			1			5	0
872			2			6	0
874			3			7	0
876			4			8	0
878			5			9	0
880			6			0	0
882			7			1	0
884			8			2	0
886			9			3	0
888			0			4	0
890			1			5	0
892			2			6	0
894			3			7	0
896			4			8	0
898			5			9	0
900			6			0	0
902			7			1	0
904			8			2	0
906			9			3	0
908			0			4	0
910			1			5	0
912			2			6	0
914			3			7	0
916			4			8	0
918			5			9	0
920			6			0	0
922			7			1	0
924			8			2	0
926			9			3	0
928			0			4	0
930			1			5	0
932			2			6	0
934			3			7	0
936			4			8	0
938			5			9	0
940			6			0	0
942			7			1	0
944			8			2	0
946			9			3	0
948			0			4	0
950			1			5	0
952			2			6	0
954			3			7	0
956			4			8	0
958			5			9	0
960			6			0	0
962			7			1	0
964			8			2	0
966			9			3	0
968			0			4	0
970			1			5	0
972			2			6	0
974			3			7	0
976			4			8	0
978			5			9	0
980			6			0	0
982			7			1	0
984			8			2	0
986			9			3	0
988			0			4	0
990			1			5	0
992			2			6	0
994			3			7	0
996			4			8	0
998			5			9	0
1000							

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4/5-7a

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EOS A1\_03 E1.EXE;43 10-NOV-98 09:35:42 PAGE 9

EOS A1\_03 E1.EXE;43

PRT TEMPERATURES

VARIABLE TARGET

FIXED TARGET

BASEPLATE

THERMOCOUPLE TEMPERATURES

FIXED TARGET SHROUD

VARIABLE TARGET SHROUD

FIXED TARGET N2

VARIABLE TARGET N2

HEATER N2

FIXED TARGET FLOW METER

VARIABLE TARGET FLOW METER

BASEPLATE HEATER N2

BASEPLATE N2

BASEPLATE FLOW METER

ADJUNCT RADIATORS

NO	DEG	K
601	293	48
602	272	15
603	293	51
604	293	10
605	293	63
606	293	43
607	293	88
608	293	20
609	293	90
610	293	49
611	293	14
612	293	08
613	293	56
614	293	12
615	293	20
616	293	08
617	293	20
618	293	08
619	293	20
620	293	08
621	293	20
622	293	08
623	293	20
624	293	08
625	293	20
626	293	08
627	293	20
628	293	08
629	293	20
630	293	08
631	293	20
632	293	08
633	293	20
634	293	08
635	293	20
636	293	08
637	293	20
638	293	08
639	293	20
640	293	08
641	293	20
642	293	08
643	293	20
644	293	08
645	293	20
646	293	08
647	293	20
648	293	08
649	293	20
650	293	08
651	293	20
652	293	08
653	293	20
654	293	08
655	293	20
656	293	08
657	293	20
658	293	08
659	293	20
660	293	08
661	293	20
662	293	08
663	293	20
664	293	08
665	293	20
666	293	08
667	293	20
668	293	08
669	293	20
670	293	08
671	293	20
672	293	08
673	293	20
674	293	08
675	293	20
676	293	08
677	293	20
678	293	08
679	293	20
680	293	08
681	293	20
682	293	08
683	293	20
684	293	08
685	293	20
686	293	08
687	293	20
688	293	08
689	293	20
690	293	08
691	293	20
692	293	08
693	293	20
694	293	08
695	293	20
696	293	08
697	293	20
698	293	08
699	293	20
700	293	08

NO	DEG	K
7	20	35
8	20	29
9	20	55
10	20	76
11	20	67
12	20	34
13	20	62
14	20	00
15	20	00
16	20	00
17	20	00
18	20	00
19	20	00
20	20	00
21	20	00
22	20	00
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27	20	00
28	20	00
29	20	00
30	20	00
31	20	00
32	20	00
33	20	00
34	20	00
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36	20	00
37	20	00
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41	20	00
42	20	00
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68	20	00
69	20	00
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85	20	00
86	20	00
87	20	00
88	20	00
89	20	00
90	20	00
91	20	00
92	20	00
93	20	00
94	20	00
95	20	00
96	20	00
97	20	00
98	20	00
99	20	00
100	20	00



EOS A1-03 E1.EXE:43 COLD CAL MODE P1 10-NOV-98 09:36:23 SCAN NUMBER 25  
 [ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 8249  
 [ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
 [ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

RADIOMETRIC DATA

BEAM POSITION 1

CH	DATA	CH	DATA
3	16022	8	16882
4	16797	9	16580
5	16114	10	16884
6	17411	11	18606
7	15874	12	18758

[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER  
SELECT BUTTON 2

ON SCREEN ONLY [ 2 ] IN 8CAF CALC 8CAF SA28 340 SA29 658  
 PRINT [ 3 ] FULL [ 1 ] RETURN

52/101

4.5-7c  
 JTA [Signature]  
 11/10/98

FOS [ 5 ] A1-03 E1.EXE:43 COLD CAL. MODE P1 10-NOV-98 09:37:20 SCAN NUMBER 32  
 [ 6 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 8251  
 [ 7 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
 [ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

53/101

RADIOMETRIC DATA

BP	DATA	BP	CHANNEL 3			BP	DATA	BP	DATA
			DATA	BP	DATA				
1	16014	9	16014	17	16022	25	16021		
2	16020	10	16022	18	16019	26	16022		
3	16018	11	16020	19	16022	27	16020		
4	16019	12	16023	20	16019	28	16032		
5	16017	13	16019	21	16023	29	16032		
6	16022	14	16024	22	16022	30	16026		
7	16021	15	16024	23	16022	CC	0		
8	16023	16	16026	24	16021	WC			
		22	DOWN						

[ 21 ] UP

ENGR OK POWER ON CHECKSUM IN 86CD CALC 86CD SA28 348 SA29 673  
 SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

4.5-7e  
 J. A. [Signature]  
 11/10/98

EOS A1-03 E1 EXE:43 COLD CAL MODE P1 10-NOV-98 09:37:52 SCAN NUMBER 36  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 8251

[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES

[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

54/101

		REFLECTOR POSITIONS			
		LOOK 1	LOOK 2	BP	LOOK 1
BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2
1	4124	4125	17	4124	4124
2	4124	4124	18	4125	4124
3	4125	4124	19	4124	4125
4	4125	4125	20	4125	4125
5	4124	4124	21	4124	4124
6	4124	4125	22	4125	4124
7	4125	4125	23	4124	4125
8	4125	4125	24	4125	0E
[ 21 ]	UP	DOWN		0E	0E

ENGR OK POWER ON CHECKSUM IN 8667 CALC 8667 FULL SA28 352 SA29 681  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] RETURN [ 1 ]

4.5-79  
J. Allen 11/10/98

**B-56**

EOS A1-03 E1 EXE:43 COLD CAL MODE P1 10-NOV-98 09:38:48 SCAN NUMBER 43  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 8251

[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES

[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

NO		SCIENCE		TEMPERATURES		DATA	TEMP C
		DATA	TEMP C	NO	1 TO 16		
1	SCAN MOTOR A1-1	16950	20.96	9	LO CHANNEL 5	20355	27.93
2	SCAN MOTOR A1-2	17670	21.93	10	LO CHANNEL 6	19906	26.14
3	FEED HORN A1-1	17985	23.26	11	LO CHANNEL 7	19863	26.75
4	FEED HORN A1-2	18667	24.59	12	LO CHANNEL 8	20789	26.64
5	RF MUX A1-1	19207	25.43	13	LO CHANNEL 15	20864	28.31
6	RF MUX A1-2	20044	27.12	14	PLLO #2	19200	25.44
7	LO CHANNEL 3	20815	28.84	15	PLLO #1	22093	31.03
8	LO CHANNEL 4	21183	28.86	16	S.P. (1553 INTF)	15155	30.59
[ 21 ] UP		[ 22 ] DOWN					

ENGR OK POWER ON CHECKSUM IN 7BED CAL C 7BED SA28 358 SA29 694  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

4-5-7i  
11/10/98  
J. A. [Signature]

EOS A1-03 E1. EXE:43 COLD CAL MODE P1 10-NOV-98 09:38:56 SCAN NUMBER 44  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 8251  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

NO SCIENCE DATA TEMPERATURES 17 TO 32 NO DATA TEMP C

17 MIXER IF CH 3	20274	27.43	25 IF AMP CH 11/14	20388	27.44
18 MIXER IF CH 4	20474	27.37	26 IF AMP CH 9	20540	27.18
19 MIXER IF CH 5	20220	27.37	27 IF AMP CH 10	20407	27.90
20 MIXER IF CH 6	19497	25.99	28 IF AMP CH 11	19533	25.36
21 MIXER IF CH 7	19335	26.24	29 DC/DC CONVERTER	22581	32.01
22 MIXER IF CH 8	20353	27.54	30 IF AMP CH 13	19152	24.78
23 MIXER IF CH 9	18955	25.18	31 IF AMP CH 14	19512	25.92
24 MIXER IF CH 10	20619	28.36	32 IF AMP CH 12	19297	25.28

[ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN 7AED CALC 7AED SA28 359 SA29 696  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL RETURN

45-7c  
57/101

EOS A1-03 E1.EXE:43 COLD CAL MODE P1 10-NOV-98 09:39:04 SCAN NUMBER 45  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 8249  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

NO DATA SCIENCE TEMPERATURES 31 TO 46 DATA TEMP C  
31 IF AMP CH 14 19517 25.92 39 A1-1 WARM LOAD 4 22101 21.24  
32 IF AMP CH 12 19302 25.29 40 A1-1 WARM LOAD 4 22302 21.25  
33 RE SHELVE A1-1 20042 27.02 41 A1-2 WARM LOAD 1 22622 21.75  
34 RE SHELVE A1-2 20268 26.84 42 A1-2 WARM LOAD 3 22673 21.75  
35 DETECTOR/PREAMP 18359 23.14 43 A1-2 WARM LOAD 4 22680 21.75  
36 A1-1 WARM LOAD 1 22036 21.22 44 A1-2 WARM LOAD 4 22684 21.75  
37 A1-1 WARM LOAD 2 22517 21.22 45 A1-2 WARM LOAD 4 22684 21.75  
38 A1-1 WARM LOAD 3 22027 21.22 THERMAL REFERENCE 25262  
[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN 7AAB CALC 7AAB SA28 360 SA29 698  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

45-7c  
58/101

POS 5 ] A1-03 E1.EXE:43 COLD CAL MODE P1 10-NOV-98 09:39:52 SCAN NUMBER 51  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 8251  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

ENGINEERING 1 TO 18

1 SIGNAL PROCESSOR 4.94 10 MIXER/IF AMPLIFIER A1-1 +10VDC 10.01  
2 SIGNAL PROCESSOR 15.06 11 MIXER/IF AMPLIFIER A1-2 +10VDC 10.01  
3 SIGNAL PROCESSOR -15.02 12 LOCAL OSCILLATOR-CH 6 +10 VDC 10.02  
4 ANTENNA DRIVE 4.92 13 LOCAL OSCILLATOR-CH 7 +10 VDC 10.02  
5 ANTENNA DRIVE 4.94 14 SPARE OSCILLATOR-CH 3 +10 VDC 327.67  
6 ANTENNA DRIVE -15.06 15 LOCAL OSCILLATOR-CH 4 +10 VDC 10.08  
7 PLO -14.79 16 LOCAL OSCILLATOR-CH 5 +10 VDC 10.08  
8 PLO -15.21 17 LOCAL OSCILLATOR-CH 8 +10 VDC 10.02  
9 RECEIVER -17.91 18 LOCAL OSCILLATOR-CH 8 +10 VDC 10.05  
[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN 74FB CALC 74FB SA28 367 SA29 711  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

59/101

45-9 11/10/98  
*[Signature]*



4.5-9

EOS A1-03 E1. EXE-43 COLD CAL MODE P1 10-NOV-98 09:40:01 SCAN NUMBER 52  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 8249  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

ENGINEERING 5 TO 22

5 ANTENNA DRIVE 14.94 14 SPARE OSCILLATOR-CH 3 +10 VDC 327.67  
6 ANTENNA DRIVE -15.06 15 LOCAL OSCILLATOR-CH 4 +10 VDC 10.06  
7 PLO -14.79 16 LOCAL OSCILLATOR-CH 5 +10 VDC 10.08  
8 REC ELVER -15.21 17 LOCAL OSCILLATOR-CH 8 +10 VDC 10.02  
9 MIXER/IF AMPLIFIER A1-1 18 LOCAL OSCILLATOR-CH 15 +15 VDC 10.05  
10 MIXER/IF AMPLIFIER A1-2 19 LOCAL OSCILLATOR-CH 15 +15 VDC 14.99  
11 LOCAL OSCILLATOR-CH 20 A1-1 QUIET BUS CURRENT 2265.8  
12 LOCAL OSCILLATOR-CH 21 A1-1 NOISY POWER BUS CURRENT 0.2  
13 LOCAL OSCILLATOR-CH 22 A1-2 NOISY POWER BUS CURRENT 0.1  
21 UP  
22 DOWN

60/101

ENGR OK POWER ON CHECKSUM IN 72A9 CALC 72A9 SA28 368 SA28 713  
SELECT BUTTON 2 SCREEN ONLY 2 PRINT 3 FULL RETURN

EOS 1 A1-03 E1..EXE:43 COLD CAL MODE P1 10-NOV-98 09:43:20 SCAN NUMBER 77  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 7647  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

INSTRUMENT STATUS

1 ANTENNA IN FULL SCAN MODE NO  
2 ANTENNA IN WARM CAL MODE NO  
3 ANTENNA IN COLD CAL MODE YES  
4 ANTENNA IN NADIR MODE NO  
5 COLD CAL. POSITION (LSB) ONE  
6 COLD CAL. POSITION (MSB) NO  
7 --- BIT 7 SPARE NO  
8 RESET C&DH PROCESSOR NO  
9 PLO REDUNDANCY PLO#1  
10 BIT 10 SPARE NO  
11 SCANNER 1 POWER YES  
12 SCANNER 2 POWER YES  
13 PLO#1 LOCK YES  
14 PLO#2 LOCK YES  
15 ADC LATCHUP FLAG YES

61/101

ENGR OK POWER ON CHECKSUM IN 2C2F CALC 2C2F SA28 393 SA29 764  
SELECT BUTTON 2 SCREEN ONLY { 2 } PRINT { 3 } FULL { 1 } RETURN

4.5-10  
JAPlan 11/10/98

EOS A1-03 E1-EXE-43 COLD CAL MODE P1 10-NOV-98 09:45:04 SCAN NUMBER 90  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 7647  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

NO	DATA	NO	DATA	NO	DATA	NO	DATA	NO	DATA	NO	DATA	NO	DATA	NO	DATA
1	9	17	3	25	23	33	62	41	64	49	74	57	77	62	101
2	3	18	0	26	22	34	179	42	174	50	73	58	39	23	
3	193	19	154	27	22	35	167	43	165	51	80	59	39	23	
4	126	20	104	28	39	36	232	44	214	52	117	60	23	7	
5	2	21	29	29	62	37	261	45	212	54	165	61	39	23	
6	191	22	223	30	136	38	216	46	79	55	229	62	39	23	
7	0	23	27	31	55	39	205	47	72	56	223	64	137		
8	174	24	39	32	120	40	203	48	235						
[ 21 ]	UP		[ 22 ]	DOWN											

ENGR OK POWER ON CHECKSUM IN 23EB CALC 23EB SA28 405 SA29 788  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

4.5-17 (Cold Cal Position 4)  
JAS (Don) 11/10/98

EOS A1-03 E1 .EXE:43 COLD CAL MODE P1 10-NOV-98 09:48:08 SCAN NUMBER 113  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 7945  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

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NO	DATA	NO	DATA	NO	DATA	NO	DATA	NO	DATA	NO	DATA	NO	DATA	NO	DATA
1	9	3	25	31	62	41	64	49	74	57	28				
2	193	10	26	39	106	42	170	50	30	58	71				
3	149	11	27	28	67	43	65	51	80	59	31				
4		12	28	71	227	44	207	52	54	60	9				
5		13	29	62	61	45	72	53	55	61	28				
6	191	14	30	134	199	46	47	54	89	62	71				
7		15	31	65	165	47	72	55	31	63	62				
8	174	16	32	99	193	48	201	56	9	64	129				
[ 21 ]	UP		[ 22 ]	DOWN											

ENGR OK POWER ON CHECKSUM IN 160F CALC 160F SA28 429 SA29 835  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

4.5-17 (Cold Cal Position 3)  
11/10/98  
J. J. J.



EOS	A1-03	E1.EXE:43	COLD CAL	MODE	P1 10-NOV-98 09:51:13	SCAN	NUMBER
[ 5 ]	SCIENCE	DATA	ELEMENT	388	REFL 1 2ND LOOK POS	12	8249
[ 6 ]	CONTROL/STATUS	ELEMENT	1	ANTENNA IN FULL	SCAN MODE	YES	
[ 7 ]	ENGINEERING	ELEMENT	1	SIGNAL PROCESSOR	+5 VDC	4.95	

[illegible]

ENGR OK	POWER	ON CHECKSUM	IN 219B	SA28	451	SA29	880
SELECT BUTTON 2	2	SCREEN ONLY	2	PRINT	3	FULL	RETURN

4,15-17 (Cold Cal Position)

101/23

[illegible]

ENGR OK POWER ON CHECKSUM IN 57AD CALC 57AD SA28 497 SA29 964  
SELECT BUTTON 3 SCREEN ONLY { 2 } PRINT { 3 } FULL { 1 } RETURN

1

PAGE

09:57:42

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SCIENCE DATA

E1.EXE;43

# SOH

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	PACKET ID	00001001	574	SCENE DATA	BP 17
2	PACKET LENGTH	00000011	575	REFLECTOR 1 POSITION	CH 89
3	UNIT SERIAL NUMBER	00000010	576	REFLECTOR 2 POSITION	CH 11
4	INSTRUMENT MODE/STATUS	00000011	577	REFL 1 POS	CH 11
5		00000000	578	REFL 2 POS	CH 11
6		00000000	579	SCENE DATA	BP 18
7		10011000	580	REFLECTOR 1 POSITION	CH 11
8		00011000	581	REFLECTOR 2 POSITION	CH 11
9		16333332	582	REFL 1 POS	CH 18
10		16333332	583	REFL 2 POS	CH 18
11		16333332	584	SCENE DATA	BP 18
12		16333332	585	REFLECTOR 1 POSITION	CH 18
13		16333332	586	REFLECTOR 2 POSITION	CH 18
14		16333332	587	REFL 1 POS	CH 18
15		16333332	588	REFL 2 POS	CH 18
16		16333332	589	SCENE DATA	BP 18
17		16333332	590	REFLECTOR 1 POSITION	CH 18
18		16333332	591	REFLECTOR 2 POSITION	CH 18
19		16333332	592	REFL 1 POS	CH 18
20		16333332	593	REFL 2 POS	CH 18
21		16333332	594	SCENE DATA	BP 18
22		16333332	595	REFLECTOR 1 POSITION	CH 18
23		16333332	596	REFLECTOR 2 POSITION	CH 18
24		16333332	597	REFL 1 POS	CH 18
25		16333332	598	REFL 2 POS	CH 18
26		16333332	599	SCENE DATA	BP 18
27		16333332	600	REFLECTOR 1 POSITION	CH 18
28		16333332	601	REFLECTOR 2 POSITION	CH 18
29		16333332	602	REFL 1 POS	CH 18
30		16333332	603	REFL 2 POS	CH 18
31		16333332	604	SCENE DATA	BP 18
32		16333332	605	REFLECTOR 1 POSITION	CH 18
33		16333332	606	REFLECTOR 2 POSITION	CH 18
34		16333332	607	REFL 1 POS	CH 18
35		16333332	608	REFL 2 POS	CH 18
36		16333332	609	SCENE DATA	BP 18
37		16333332	610	REFLECTOR 1 POSITION	CH 18
38		16333332	611	REFLECTOR 2 POSITION	CH 18
39		16333332	612	REFL 1 POS	CH 18
40		16333332	613	REFL 2 POS	CH 18
41		16333332	614	SCENE DATA	BP 18
42		16333332	615	REFLECTOR 1 POSITION	CH 18
43		16333332	616	REFLECTOR 2 POSITION	CH 18
44		16333332	617	REFL 1 POS	CH 18
45		16333332	618	REFL 2 POS	CH 18
46		16333332	619	SCENE DATA	BP 18
47		16333332	620	REFLECTOR 1 POSITION	CH 18
48		16333332	621	REFLECTOR 2 POSITION	CH 18
49		16333332	622	REFL 1 POS	CH 18
50		16333332	623	REFL 2 POS	CH 18
51		16333332	624	SCENE DATA	BP 18
52		16333332	625	REFLECTOR 1 POSITION	CH 18
53		16333332	626	REFLECTOR 2 POSITION	CH 18
54		16333332	627	REFL 1 POS	CH 18
55		16333332	628	REFL 2 POS	CH 18
56		16333332	629	SCENE DATA	BP 18
57		16333332	630	REFLECTOR 1 POSITION	CH 18
58		16333332	631	REFLECTOR 2 POSITION	CH 18
59		16333332	632	REFL 1 POS	CH 18
60		16333332	633	REFL 2 POS	CH 18
61		16333332	634	SCENE DATA	BP 18
62		16333332	635	REFLECTOR 1 POSITION	CH 18
63		16333332	636	REFLECTOR 2 POSITION	CH 18
64		16333332	637	REFL 1 POS	CH 18
65		16333332	638	REFL 2 POS	CH 18
66		16333332	639	SCENE DATA	BP 18
67		16333332	640	REFLECTOR 1 POSITION	CH 18
68		16333332	641	REFLECTOR 2 POSITION	CH 18
69		16333332	642	REFL 1 POS	CH 18
70		16333332	643	REFL 2 POS	CH 18
71		16333332	644	SC	



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EOS	A1_03	E1.EXE;43	SCIENCE DATA FULL SCAN MODE	10-NOV-98	09:57:42	PAGE	2
ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE		
94	REFLECTOR 1 POSITION	15781	672	REFLECTOR 1 POSITION	15781		
95	REFLECTOR 2 POSITION	15782	673	REFLECTOR 2 POSITION	15782		
96	REFLECTOR 3 POSITION	15783	674	REFLECTOR 3 POSITION	15783		
97	REFLECTOR 4 POSITION	15784	675	REFLECTOR 4 POSITION	15784		
98	REFLECTOR 5 POSITION	15785	676	REFLECTOR 5 POSITION	15785		
99	REFLECTOR 6 POSITION	15786	677	REFLECTOR 6 POSITION	15786		
100	REFLECTOR 7 POSITION	15787	678	REFLECTOR 7 POSITION	15787		
101	REFLECTOR 8 POSITION	15788	679	REFLECTOR 8 POSITION	15788		
102	REFLECTOR 9 POSITION	15789	680	REFLECTOR 9 POSITION	15789		
103	REFLECTOR 10 POSITION	15790	681	REFLECTOR 10 POSITION	15790		
104	REFLECTOR 11 POSITION	15791	682	REFLECTOR 11 POSITION	15791		
105	REFLECTOR 12 POSITION	15792	683	REFLECTOR 12 POSITION	15792		
106	REFLECTOR 13 POSITION	15793	684	REFLECTOR 13 POSITION	15793		
107	REFLECTOR 14 POSITION	15794	685	REFLECTOR 14 POSITION	15794		
108	REFLECTOR 15 POSITION	15795	686	REFLECTOR 15 POSITION	15795		
109	REFLECTOR 16 POSITION	15796	687	REFLECTOR 16 POSITION	15796		
110	REFLECTOR 17 POSITION	15797	688	REFLECTOR 17 POSITION	15797		
111	REFLECTOR 18 POSITION	15798	689	REFLECTOR 18 POSITION	15798		
112	REFLECTOR 19 POSITION	15799	690	REFLECTOR 19 POSITION	15799		
113	REFLECTOR 20 POSITION	15800	691	REFLECTOR 20 POSITION	15800		
114	REFLECTOR 21 POSITION	15801	692	REFLECTOR 21 POSITION	15801		
115	REFLECTOR 22 POSITION	15802	693	REFLECTOR 22 POSITION	15802		
116	REFLECTOR 23 POSITION	15803	694	REFLECTOR 23 POSITION	15803		
117	REFLECTOR 24 POSITION	15804	695	REFLECTOR 24 POSITION	15804		
118	REFLECTOR 25 POSITION	15805	696	REFLECTOR 25 POSITION	15805		
119	REFLECTOR 26 POSITION	15806	697	REFLECTOR 26 POSITION	15806		
120	REFLECTOR 27 POSITION	15807	698	REFLECTOR 27 POSITION	15807		
121	REFLECTOR 28 POSITION	15808	699	REFLECTOR 28 POSITION	15808		
122	REFLECTOR 29 POSITION	15809	700	REFLECTOR 29 POSITION	15809		
123	REFLECTOR 30 POSITION	15810	701	REFLECTOR 30 POSITION	15810		
124	REFLECTOR 31 POSITION	15811	702	REFLECTOR 31 POSITION	15811		
125	REFLECTOR 32 POSITION	15812	703	REFLECTOR 32 POSITION	15812		
126	REFLECTOR 33 POSITION	15813	704	REFLECTOR 33 POSITION	15813		
127	REFLECTOR 34 POSITION	15814	705	REFLECTOR 34 POSITION	15814		
128	REFLECTOR 35 POSITION	15815	706	REFLECTOR 35 POSITION	15815		
129	REFLECTOR 36 POSITION	15816	707	REFLECTOR 36 POSITION	15816		
130	REFLECTOR 37 POSITION	15817	708	REFLECTOR 37 POSITION	15817		
131	REFLECTOR 38 POSITION	15818	709	REFLECTOR 38 POSITION	15818		
132	REFLECTOR 39 POSITION	15819	710	REFLECTOR 39 POSITION	15819		
133	REFLECTOR 40 POSITION	15820	711	REFLECTOR 40 POSITION	15820		
134	REFLECTOR 41 POSITION	15821	712	REFLECTOR 41 POSITION	15821		
135	REFLECTOR 42 POSITION	15822	713	REFLECTOR 42 POSITION	15822		
136	REFLECTOR 43 POSITION	15823	714	REFLECTOR 43 POSITION	15823		
137	REFLECTOR 44 POSITION	15824	715	REFLECTOR 44 POSITION	15824		
138	REFLECTOR 45 POSITION	15825	716	REFLECTOR 45 POSITION	15825		
139	REFLECTOR 46 POSITION	15826	717	REFLECTOR 46 POSITION	15826		
140	REFLECTOR 47 POSITION	15827	718	REFLECTOR 47 POSITION	15827		
141	REFLECTOR 48 POSITION	15828	719	REFLECTOR 48 POSITION	15828		
142	REFLECTOR 49 POSITION	15829	720	REFLECTOR 49 POSITION	15829		
143	REFLECTOR 50 POSITION	15830	721	REFLECTOR 50 POSITION	15830		
144	REFLECTOR 51 POSITION	15831	722	REFLECTOR 51 POSITION	15831		
145	REFLECTOR 52 POSITION	15832	723	REFLECTOR 52 POSITION	15832		
146	REFLECTOR 53 POSITION	15833	724	REFLECTOR 53 POSITION	15833		
147	REFLECTOR 54 POSITION	15834	725	REFLECTOR 54 POSITION	15834		
148	REFLECTOR 55 POSITION	15835	726	REFLECTOR 55 POSITION	15835		
149	REFLECTOR 56 POSITION	15836	727	REFLECTOR 56 POSITION	15836		
150	REFLECTOR 57 POSITION	15837	728	REFLECTOR 57 POSITION	15837		
151	REFLECTOR 58 POSITION	15838	729	REFLECTOR 58 POSITION	15838		
152	REFLECTOR 59 POSITION	15839	730	REFLECTOR 59 POSITION	15839		
153	REFLECTOR 60 POSITION	15840	731	REFLECTOR 60 POSITION	15840		
154	REFLECTOR 61 POSITION	15841	732	REFLECTOR 61 POSITION	15841		
155	REFLECTOR 62 POSITION	15842	733	REFLECTOR 62 POSITION	15842		
156	REFLECTOR 63 POSITION	15843	734	REFLECTOR 63 POSITION	15843		
157	REFLECTOR 64 POSITION	15844	735	REFLECTOR 64 POSITION	15844		
158	REFLECTOR 65 POSITION	15845	736	REFLECTOR 65 POSITION	15845		
159	REFLECTOR 66 POSITION	15846	737	REFLECTOR 66 POSITION	15846		
160	REFLECTOR 67 POSITION	15847	738	REFLECTOR 67 POSITION	15847		
161	REFLECTOR 68 POSITION	15848	739	REFLECTOR 68 POSITION	15848		
162	REFLECTOR 69 POSITION	15849	740	REFLECTOR 69 POSITION	15849		
163	REFLECTOR 70 POSITION	15850	741	REFLECTOR 70 POSITION	15850		
164	REFLECTOR 71 POSITION	15851	742	REFLECTOR 71 POSITION	15851		
165	REFLECTOR 72 POSITION	15852	743	REFLECTOR 72 POSITION	15852		
166	REFLECTOR 73 POSITION	15853	744	REFLECTOR 73 POSITION	15853		
167	REFLECTOR 74 POSITION	15854	745	REFLECTOR 74 POSITION	15854		
168	REFLECTOR 75 POSITION	15855	746	REFLECTOR 75 POSITION	15855		
169	REFLECTOR 76 POSITION	15856	747	REFLECTOR 76 POSITION	15856		
170	REFLECTOR 77 POSITION	15857	748	REFLECTOR 77 POSITION	15857		
171	REFLECTOR 78 POSITION	15858	749	REFLECTOR 78 POSITION	15858		
172	REFLECTOR 79 POSITION	15859	750	REFLECTOR 79 POSITION	15859		
173	REFLECTOR 80 POSITION	15860	751	REFLECTOR 80 POSITION	15860		
174	REFLECTOR 81 POSITION	15861	752	REFLECTOR 81 POSITION	15861		
175	REFLECTOR 82 POSITION	15862	753	REFLECTOR 82 POSITION	15862		
176	REFLECTOR 83 POSITION	15863	754	REFLECTOR 83 POSITION	15863		
177	REFLECTOR 84 POSITION	15864	755	REFLECTOR 84 POSITION	15864		
178	REFLECTOR 85 POSITION	15865	756	REFLECTOR 85 POSITION	15865		
179	REFLECTOR 86 POSITION	15866	757	REFLECTOR 86 POSITION	15866		
180	REFLECTOR 87 POSITION	15867	758	REFLECTOR 87 POSITION	15867		
181	REFLECTOR 88 POSITION	15868	759	REFLECTOR 88 POSITION	15868		
182	REFLECTOR 89 POSITION	15869	760	REFLECTOR 89 POSITION	15869		
183	REFLECTOR 90 POSITION	15870	761	REFLECTOR 90 POSITION	15870		
184	REFLECTOR 91 POSITION	15871	762	REFLECTOR 91 POSITION	15871		
185	REFLECTOR 92 POSITION	15872	763	REFLECTOR 92 POSITION	15872		
186	REFLECTOR 93 POSITION	15873	764	REFLECTOR 93 POSITION	15873		
187	REFLECTOR 94 POSITION	15874	765	REFLECTOR 94 POSITION	15874		
188	REFLECTOR 95 POSITION	15875	766	REFLECTOR 95 POSITION	15875		
189	REFLECTOR 96 POSITION	15876	767	REFLECTOR 96 POSITION	15876		
190	REFLECTOR 97 POSITION	15877	768	REFLECTOR 97 POSITION	15877		
191	REFLECTOR 98 POSITION	15878	769	REFLECTOR 98 POSITION	15878		
192	REFLECTOR 99 POSITION	15879	770	REFLECTOR 99 POSITION	15879		
193	REFLECTOR 100 POSITION	15880	771	REFLECTOR 100 POSITION	15880		
194	REFLECTOR 101 POSITION	15881	772	REFLECTOR 101 POSITION	15881		
195	REFLECTOR 102 POSITION	15882	773	REFLECTOR 102 POSITION	15882		
196	REFLECTOR 103 POSITION	15883	774	REFLECTOR 103 POSITION	15883		
197	REFLECTOR 104 POSITION	15884	775	REFLECTOR 104 POSITION	15884		
198	REFLECTOR 105 POSITION	15885	776	REFLECTOR 105 POSITION	15885		
199	REFLECTOR 106 POSITION	15886	777	REFLECTOR 106 POSITION	15886		
200	REFLECTOR 107 POSITION	15887	778	REFLECTOR 107 POSITION	15887		
201	REFLECTOR 108 POSITION	15888	779	REFLECTOR 108 POSITION	15888		
202	REFLECTOR 109 POSITION	15889	780	REFLECTOR 109 POSITION	15889		
203	REFLECTOR 110 POSITION	15890	781	REFLECTOR 110 POSITION	15890		
204	REFLECTOR 111 POSITION	15891	782	REFLECTOR 111 POSITION	15891		
205	REFLECTOR 112 POSITION	15892	783	REFLECTOR 112 POSITION	15892		
206	REFLECTOR 113 POSITION	15893	784	REFLECTOR 113 POSITION	15893		
207	REFLECTOR 114 POSITION	15894	785	REFLECTOR 114 POSITION	15894		
208	REFLECTOR 115 POSITION	15895	786	REFLECTOR 115 POSITION	15895		
209	REFLECTOR 116 POSITION	15896	787	REFLECTOR 116 POSITION	15896		
210	REFLECTOR 117 POSITION	15897	788	REFLECTOR 117 POSITION	15897		
211	REFLECTOR 118 POSITION	15898	789	REFLECTOR 118 POSITION	15898		
212	REFLECTOR 119 POSITION	15899	790	REFLECTOR 119 POSITION	15899		
213	REFLECTOR 120 POSITION	15900	791	REFLECTOR 120 POSITION	15900		
214	REFLECTOR 121 POSITION	15901	792	REFLECTOR 121 POSITION	15901		
215	REFLECTOR 122 POSITION	15902	793	REFLECTOR 122 POSITION	15902		
216	REFLECTOR 123 POSITION	15903	794	REFLECTOR 123 POSITION	15903		
217	REFLECTOR 124 POSITION	15904	795	REFLECTOR 124 POSITION	15904		
218	REFLECTOR 125 POSITION	15905	796	REFLECTOR 125 POSITION	15905		
219	REFLECTOR 126 POSITION	15906	797	REFLECTOR 126 POSITION	15906		
220	REFLECTOR 127 POSITION	15907	798	REFLECTOR 127 POSITION	15907		
221	REFLECTOR 128 POSITION	15908	799	REFLECTOR 128 POSITION	15908		
222	REFLECTOR 129 POSITION	15909	800	REFLECTOR 129 POSITION	15909		
223	REFLECTOR 130 POSITION	15910	801	REFLECTOR 130 POSITION	15910		
224	REFLECTOR 131 POSITION	15911	802	REFLECTOR 131 POSITION	15911		
225	REFLECTOR 132 POSITION	15912	803	REFLECTOR 132 POSITION	15912		
226	REFLECTOR 133 POSITION	15913	804	REFLECTOR 133 POSITION	15913		
227	REFLECTOR 134 POSITION	15914	805	REFLECTOR 134 POSITION	15914		
228	REFLECTOR 135 POSITION	15915	806	REFLECTOR 135 POSITION	15915		
229	REFLECTOR 136 POSITION	15916	807	REFLECTOR 136 POSITION	15916		
230	REFLECTOR 137 POSITION	15917	808	REFLECTOR 137 POSITION	15917		
231	REFLECTOR 138 POSITION	15918	809	REFLECTOR 138 POSITION	15918		
232	REFLECTOR 139 POSITION	15919	810	REFLECTOR 139 POSITION	15919		
233	REFLECTOR 140 POSITION	15920	811	REFLECTOR 140 POSITION	15920		
234	REFLECTOR 141 POSITION	15921	812	REFLECTOR 141 POSITION	15921		
235	REFLECTOR 142 POSITION	15922	813	REFLECTOR 142 POSITION	15922		
236	REFLECTOR 143 POSITION	15923	814	REFLECTOR 143 POSITION	15923		
237	REFLECTOR 144 POSITION	15924	815	REFLECTOR 144 POSITION	15924		
238	REFLECTOR 145 POSITION	15925	816	REFLECTOR 145 POSITION	15925		
239	REFLECTOR 146 POSITION	15926	817	REFLECTOR 146 POSITION	15926		
240	REFLECTOR 147 POSITION	15927	818	REFLECTOR 147 POSITION	15927		
241	REFLECTOR 148 POSITION	15928	819	REFLECTOR 148 POSITION	15928		
242	REFLECTOR 149 POSITION	15929	820	REFLECTOR 149 POSITION	15929		
243	REFLECTOR 150 POSITION	15930	821	REFLECTOR 150 POSITION	15930		
244	REFLECTOR 151 POSITION	15931	822	REFLECTOR 151 POSITION	15931		
245	REFLECTOR 152 POSITION	15932	823	REFLECTOR 152 POSITION	15932		
246	REFLECTOR 153 POSITION	15933	824	REFLECTOR 153 POSITION	15933		
247	REFLECTOR 154 POSITION	15934	825	REFLECTOR 154 POSITION	15934		
248	REFLECTOR 155 POSITION	15935	826	REFLECTOR 155 POSITION	15935		
249	REFLECTOR 156 POSITION	15936	827	REFLECTOR 156 POSITION	15936		
250	REFLECTOR 157 POSITION	15937	828	REFLECTOR 157 POSITION	15937		
251	REFLECTOR 158 POSITION	15938	829	REFLECTOR 158 POSITION	15938		
252	REFLECTOR 159 POSITION	15939	830	REFLECTOR 159 POSITION	15939		
253	REFLECTOR 160 POSITION	15940	831	REFLECTOR 160 POSITION	15940		
254	REFLECTOR 161 POSITION	15941	832	REFLECTOR 161 POSITION	15941		
255	REFLECTOR 162 POSITION	15942	833	REFLECTOR 162 POSITION	15942		
256	REFLECTOR 163 POSITION	15943	834	REFLECTOR 163 POSITION	15943		
257	REFLECTOR 164 POSITION	15944	835	REFLECTOR 164 POSITION	15944		
258	REFLECTOR 165 POSITION	15945	836	REFLECTOR 165 POSITION	15945		
259	REFLECTOR 166 POSITION	15946	837	REFLECTOR 166 POSITION	15946		
260	REFLECTOR 167 POSITION	15947	838				

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EOS	A1_03	E1.EXE;43	SCIENCE DATA FULL SCAN MODE	10-NOV-98	09:57:42	PAGE	3
ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE		
194	REFLECTOR 1 POSITION	64	772	REFLECTOR 1 POSITION	64		
196	REFLECTOR 2 POSITION	774	774	REFLECTOR 2 POSITION	774		
198	REFLECTOR 1 POS	776	776	REFLECTOR 1 POS	776		
200	REFLECTOR 2 POS	778	778	REFLECTOR 2 POS	778		
202	REFLECTOR 1 POS	780	780	REFLECTOR 1 POS	780		
204	REFLECTOR 2 POS	782	782	REFLECTOR 2 POS	782		
206	REFLECTOR 1 POS	784	784	REFLECTOR 1 POS	784		
208	REFLECTOR 2 POS	786	786	REFLECTOR 2 POS	786		
210	REFLECTOR 1 POS	788	788	REFLECTOR 1 POS	788		
212	REFLECTOR 2 POS	790	790	REFLECTOR 2 POS	790		
214	REFLECTOR 1 POS	792	792	REFLECTOR 1 POS	792		
216	REFLECTOR 2 POS	794	794	REFLECTOR 2 POS	794		
218	REFLECTOR 1 POS	796	796	REFLECTOR 1 POS	796		
220	REFLECTOR 2 POS	798	798	REFLECTOR 2 POS	798		
222	REFLECTOR 1 POS	800	800	REFLECTOR 1 POS	800		
224	REFLECTOR 2 POS	802	802	REFLECTOR 2 POS	802		
226	REFLECTOR 1 POS	804	804	REFLECTOR 1 POS	804		
228	REFLECTOR 2 POS	806	806	REFLECTOR 2 POS	806		
230	REFLECTOR 1 POS	808	808	REFLECTOR 1 POS	808		
232	REFLECTOR 2 POS	810	810	REFLECTOR 2 POS	810		
234	REFLECTOR 1 POS	812	812	REFLECTOR 1 POS	812		
236	REFLECTOR 2 POS	814	814	REFLECTOR 2 POS	814		
238	REFLECTOR 1 POS	816	816	REFLECTOR 1 POS	816		
240	REFLECTOR 2 POS	818	818	REFLECTOR 2 POS	818		
242	REFLECTOR 1 POS	820	820	REFLECTOR 1 POS	820		
244	REFLECTOR 2 POS	822	822	REFLECTOR 2 POS	822		
246	REFLECTOR 1 POS	824	824	REFLECTOR 1 POS	824		
248	REFLECTOR 2 POS	826	826	REFLECTOR 2 POS	826		
250	REFLECTOR 1 POS	828	828	REFLECTOR 1 POS	828		
252	REFLECTOR 2 POS	830	830	REFLECTOR 2 POS	830		
254	REFLECTOR 1 POS	832	832	REFLECTOR 1 POS	832		
256	REFLECTOR 2 POS	834	834	REFLECTOR 2 POS	834		
258	REFLECTOR 1 POS	836	836	REFLECTOR 1 POS	836		
260	REFLECTOR 2 POS	838	838	REFLECTOR 2 POS	838		
262	REFLECTOR 1 POS	840	840	REFLECTOR 1 POS	840		
264	REFLECTOR 2 POS	842	842	REFLECTOR 2 POS	842		
266	REFLECTOR 1 POS	844	844	REFLECTOR 1 POS	844		
268	REFLECTOR 2 POS	846	846	REFLECTOR 2 POS	846		
270	REFLECTOR 1 POS	848	848	REFLECTOR 1 POS	848		
272	REFLECTOR 2 POS	850	850	REFLECTOR 2 POS	850		
274	REFLECTOR 1 POS	852	852	REFLECTOR 1 POS	852		
276	REFLECTOR 2 POS	854	854	REFLECTOR 2 POS	854		
278	REFLECTOR 1 POS	856	856	REFLECTOR 1 POS	856		
280	REFLECTOR 2 POS	858	858	REFLECTOR 2 POS	858		
282	REFLECTOR 1 POS	860	860	REFLECTOR 1 POS	860		
284	REFLECTOR 2 POS	862	862	REFLECTOR 2 POS	862		
286	REFLECTOR 1 POS	864	864	REFLECTOR 1 POS	864		
288	REFLECTOR 2 POS	866	866	REFLECTOR 2 POS	866		
290	REFLECTOR 1 POS	868	868	REFLECTOR 1 POS	868		
292	REFLECTOR 2 POS	870	870	REFLECTOR 2 POS	870		
294	REFLECTOR 1 POS	872	872	REFLECTOR 1 POS	872		
296	REFLECTOR 2 POS	874	874	REFLECTOR 2 POS	874		
298	REFLECTOR 1 POS	876	876	REFLECTOR 1 POS	876		
300	REFLECTOR 2 POS	878	878	REFLECTOR 2 POS	878		
302	REFLECTOR 1 POS	880	880	REFLECTOR 1 POS	880		
304	REFLECTOR 2 POS	882	882	REFLECTOR 2 POS	882		
306	REFLECTOR 1 POS	884	884	REFLECTOR 1 POS	884		
308	REFLECTOR 2 POS	886	886	REFLECTOR 2 POS	886		
310	REFLECTOR 1 POS	888	888	REFLECTOR 1 POS	888		
312	REFLECTOR 2 POS	890	890	REFLECTOR 2 POS	890		
314	REFLECTOR 1 POS	892	892	REFLECTOR 1 POS	892		
316	REFLECTOR 2 POS	894	894	REFLECTOR 2 POS	894		
318	REFLECTOR 1 POS	896	896	REFLECTOR 1 POS	896		
320	REFLECTOR 2 POS	898	898	REFLECTOR 2 POS	898		
322	REFLECTOR 1 POS	900	900	REFLECTOR 1 POS	900		
324	REFLECTOR 2 POS	902	902	REFLECTOR 2 POS	902		
326	REFLECTOR 1 POS	904	904	REFLECTOR 1 POS	904		
328	REFLECTOR 2 POS	906	906	REFLECTOR 2 POS	906		
330	REFLECTOR 1 POS	908	908	REFLECTOR 1 POS	908		
332	REFLECTOR 2 POS	910	910	REFLECTOR 2 POS	910		
334	REFLECTOR 1 POS	912	912	REFLECTOR 1 POS	912		
336	REFLECTOR 2 POS	914	914	REFLECTOR 2 POS	914		
338	REFLECTOR 1 POS	916	916	REFLECTOR 1 POS	916		
340	REFLECTOR 2 POS	918	918	REFLECTOR 2 POS	918		
342	REFLECTOR 1 POS	920	920	REFLECTOR 1 POS	920		
344	REFLECTOR 2 POS	922	922	REFLECTOR 2 POS	922		
346	REFLECTOR 1 POS	924	924	REFLECTOR 1 POS	924		
348	REFLECTOR 2 POS	926	926	REFLECTOR 2 POS	926		
350	REFLECTOR 1 POS	928	928	REFLECTOR 1 POS	928		
352	REFLECTOR 2 POS	930	930	REFLECTOR 2 POS	930		
354	REFLECTOR 1 POS	932	932	REFLECTOR 1 POS	932		
356	REFLECTOR 2 POS	934	934	REFLECTOR 2 POS	934		
358	REFLECTOR 1 POS	936	936	REFLECTOR 1 POS	936		
360	REFLECTOR 2 POS	938	938	REFLECTOR 2 POS	938		
362	REFLECTOR 1 POS	940	940	REFLECTOR 1 POS	940		
364	REFLECTOR 2 POS	942	942	REFLECTOR 2 POS	942		
366	REFLECTOR 1 POS	944	944	REFLECTOR 1 POS	944		
368	REFLECTOR 2 POS	946	946	REFLECTOR 2 POS	946		
370	REFLECTOR 1 POS	948	948	REFLECTOR 1 POS	948		
372	REFLECTOR 2 POS	950	950	REFLECTOR 2 POS	950		
374	REFLECTOR 1 POS	952	952	REFLECTOR 1 POS	952		
376	REFLECTOR 2 POS	954	954	REFLECTOR 2 POS	954		
378	REFLECTOR 1 POS	956	956	REFLECTOR 1 POS	956		
380	REFLECTOR 2 POS	958	958	REFLECTOR 2 POS	958		
382	REFLECTOR 1 POS	960	960	REFLECTOR 1 POS	960		
384	REFLECTOR 2 POS	962	962	REFLECTOR 2 POS	962		
386	REFLECTOR 1 POS	964	964	REFLECTOR 1 POS	964		
388	REFLECTOR 2 POS	966	966	REFLECTOR 2 POS	966		
390	REFLECTOR 1 POS	968	968	REFLECTOR 1 POS	968		
392	REFLECTOR 2 POS	970	970	REFLECTOR 2 POS	970		
394	REFLECTOR 1 POS	972	972	REFLECTOR 1 POS	972		
396	REFLECTOR 2 POS	974	974	REFLECTOR 2 POS	974		
398	REFLECTOR 1 POS	976	976	REFLECTOR 1 POS	976		
400	REFLECTOR 2 POS	978	978	REFLECTOR 2 POS	978		
402	REFLECTOR 1 POS	980	980	REFLECTOR 1 POS	980		
404	REFLECTOR 2 POS	982	982	REFLECTOR 2 POS	982		
406	REFLECTOR 1 POS	984	984	REFLECTOR 1 POS	984		
408	REFLECTOR 2 POS	986	986	REFLECTOR 2 POS	986		
410	REFLECTOR 1 POS	988	988	REFLECTOR 1 POS	988		
412	REFLECTOR 2 POS	990	990	REFLECTOR 2 POS	990		
414	REFLECTOR 1 POS	992	992	REFLECTOR 1 POS	992		
416	REFLECTOR 2 POS	994	994	REFLECTOR 2 POS	994		
418	REFLECTOR 1 POS	996	996	REFLECTOR 1 POS	996		
420	REFLECTOR 2 POS	998	998	REFLECTOR 2 POS	998		
422	REFLECTOR 1 POS	1000	1000	REFLECTOR 1 POS	1000		
424	REFLECTOR 2 POS	1002	1002	REFLECTOR 2 POS	1002		
426	REFLECTOR 1 POS	1004	1004	REFLECTOR 1 POS	1004		
428	REFLECTOR 2 POS	1006	1006	REFLECTOR 2 POS	1006		
430	REFLECTOR 1 POS	1008	1008	REFLECTOR 1 POS	1008		
432	REFLECTOR 2 POS	1010	1010	REFLECTOR 2 POS	1010		
434	REFLECTOR 1 POS	1012	1012	REFLECTOR 1 POS	1012		
436	REFLECTOR 2 POS	1014	1014	REFLECTOR 2 POS	1014		
438	REFLECTOR 1 POS	1016	1016	REFLECTOR 1 POS	1016		
440	REFLECTOR 2 POS	1018	1018	REFLECTOR 2 POS	1018		
442	REFLECTOR 1 POS	1020	1020	REFLECTOR 1 POS	1020		
444	REFLECTOR 2 POS	1022	1022	REFLECTOR 2 POS	1022		
446	REFLECTOR 1 POS	1024	1024	REFLECTOR 1 POS	1024		
448	REFLECTOR 2 POS	1026	1026	REFLECTOR 2 POS	1026		
450	REFLECTOR 1 POS	1028	1028	REFLECTOR 1 POS	1028		
452	REFLECTOR 2 POS	1030	1030	REFLECTOR 2 POS	1030		
454	REFLECTOR 1 POS	1032	1032	REFLECTOR 1 POS	1032		
456	REFLECTOR 2 POS	1034	1034	REFLECTOR 2 POS	1034		
458	REFLECTOR 1 POS	1036	1036	REFLECTOR 1 POS	1036		
460	REFLECTOR 2 POS	1038	1038	REFLECTOR 2 POS	1038		
462	REFLECTOR 1 POS	1040	1040	REFLECTOR 1 POS	1040		
464	REFLECTOR 2 POS	1042	1042	REFLECTOR 2 POS	1042		
466	REFLECTOR 1 POS	1044	1044	REFLECTOR 1 POS	1044		
468	REFLECTOR 2 POS	1046	1046	REFLECTOR 2 POS	1046		
470	REFLECTOR 1 POS	1048	1048	REFLECTOR 1 POS	1048		
472	REFLECTOR 2 POS	1050	1050	REFLECTOR 2 POS	1050		
474	REFLECTOR 1 POS	1052	1052	REFLECTOR 1 POS	1052		
476	REFLECTOR 2 POS	1054	1054	REFLECTOR 2 POS	1054		
478	REFLECTOR 1 POS	1056	1056	REFLECTOR 1 POS	1056		
480	REFLECTOR 2 POS	1058	1058	REFLECTOR 2 POS	1058		
482	REFLECTOR 1 POS	1060	1060	REFLECTOR 1 POS	1060		
484	REFLECTOR 2 POS	1062	1062	REFLECTOR 2 POS	1062		
486	REFLECTOR 1 POS	1064	1064	REFLECTOR 1 POS	1064		
488	REFLECTOR 2 POS	1066	1066	REFLECTOR 2 POS	1066		
490	REFLECTOR 1 POS	1068	1068	REFLECTOR 1 POS	1068		
492	REFLECTOR 2 POS	1070	1070	REFLECTOR 2 POS	1070		
494	REFLECTOR 1 POS	1072	1072	REFLECTOR 1 POS	1072		
496	REFLECTOR 2 POS	1074	1074	REFLECTOR 2 POS	1074		
498	REFLECTOR 1 POS	1076	1076	REFLECTOR 1 POS	1076		
500	REFLECTOR 2 POS	1078	1078	REFLECTOR 2 POS	1078		
502	REFLECTOR 1 POS	1080	1080	REFLECTOR 1 POS	1080		
504	REFLECTOR 2 POS	1082	1082	REFLECTOR 2 POS	1082		
506	REFLECTOR 1 POS	1084	1084	REFLECTOR 1 POS	1084		
508	REFLECTOR 2 POS	1086	1086	REFLECTOR 2 POS	1086		
510	REFLECTOR 1 POS	1088	1088	REFLECTOR 1 POS	1088		
512	REFLECTOR 2 POS	1090	1090	REFLECTOR 2 POS	1090		
514	REFLECTOR 1 POS	1092	1092	REFLECTOR 1 POS	1092		
516	REFLECTOR 2 POS	1094	1094	REFLECTOR 2 POS	1094		
518	REFLECTOR 1 POS	1096	1096	REFLECTOR 1 POS	1096		
520	REFLECTOR 2 POS	1098	1098	REFLECTOR 2 POS	1098		
522	REFLECTOR 1 POS	1100	1100	REFLECTOR 1 POS	1100		
524	REFLECTOR 2 POS	1102	1102	REFLECTOR 2 POS	1102		
526	REFLECTOR 1 POS	1104	1104	REFLECTOR 1 POS	1104		
528	REFLECTOR 2 POS	1106	1106	REFLECTOR 2 POS	1106		
530	REFLECTOR 1 POS	1108	1108	REFLECTOR 1 POS	1108		
532	REFLECTOR 2 POS	1110	1110	REFLECTOR 2 POS	1110		
534	REFLECTOR 1 POS	1112	1112	REFLECTOR 1 POS	1112		
536	REFLECTOR 2 POS	1114	1114	REFLECTOR 2 POS	1114		
538	REFLECTOR 1 POS	1116	1116	REFLECTOR 1 POS	1116		
540	REFLECTOR 2 POS	1118	1118	REFLECTOR 2 POS	1118		
542	REFLECTOR 1 POS	1120	1120	REFLECTOR 1 POS	1120		
544	REFLECTOR 2 POS	1122	1122	REFLECTOR 2 POS	1122		
546	REFLECTOR 1 POS	1124	1124	REFLECTOR 1 POS	1124		
548	REFLECTOR 2 POS	1126	1126	REFLECTOR 2 POS	1126		
550	REFLECTOR 1 POS	1128	1128	REFLECTOR 1 POS	1128		
552	REFLECTOR 2 POS	1130	1130	REFLECTOR 2 POS	1130		
554	REFLECTOR 1 POS	1132					

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09:57:42

10-NOV-98

SCIENCE DATA  
FULL SCAN MODE

EOS A1\_03 E1.EXE;43

TEMPERATURE DEG C

VALUE

DESCRIPTION

ELEMENT

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
1090	SCAN MOTOR A1-1	17054	16
1092	SCAN MOTOR A1-2	17910	22
1094	FEED HORN A1-1	18425	24
1096	FEED HORN A1-2	19347	34
1100	REF MUX A1-1	10980	1
1102	REF MUX A1-2	22106	3
1104	LOCAL OSCILLATOR CHANNEL 3	22152	34
1106	LOCAL OSCILLATOR CHANNEL 4	22502	6
1108	LOCAL OSCILLATOR CHANNEL 5	22502	5
1110	LOCAL OSCILLATOR CHANNEL 6	22502	3
1112	LOCAL OSCILLATOR CHANNEL 7	22502	0
1114	LOCAL OSCILLATOR CHANNEL 8	22502	9
1116	LOCAL OSCILLATOR CHANNEL 15	22502	7
1118	PLLO #1	22502	0
1120	PLLO #2	22502	0
1122	INTERFACE	22502	4
1124	MIXER//FIER CHANNEL 3	22502	7
1126	MIXER//FIER CHANNEL 4	22502	4
1128	MIXER//FIER CHANNEL 5	22502	2
1130	MIXER//FIER CHANNEL 6	22502	7
1132	MIXER//FIER CHANNEL 7	22502	1
1134	MIXER//FIER CHANNEL 8	22502	0
1136	MIXER//FIER CHANNEL 9	22502	2
1138	MIXER//FIER CHANNEL 10	22502	7
1140	MIXER//FIER CHANNEL 11	22502	3
1142	MIXER//FIER CHANNEL 12	22502	5
1144	MIXER//FIER CHANNEL 13	22502	0
1146	MIXER//FIER CHANNEL 14	22502	8
1148	MIXER//FIER CHANNEL 15	22502	5
1150	MIXER//FIER CHANNEL 16	22502	0
1152	MIXER//FIER CHANNEL 17	22502	8
1154	MIXER//FIER CHANNEL 18	22502	4
1156	MIXER//FIER CHANNEL 19	22502	6
1158	MIXER//FIER CHANNEL 20	22502	2
1160	MIXER//FIER CHANNEL 21	22502	6
1162	MIXER//FIER CHANNEL 22	22502	4
1164	MIXER//FIER CHANNEL 23	22502	0
1166	MIXER//FIER CHANNEL 24	22502	2
1168	MIXER//FIER CHANNEL 25	22502	6
1170	MIXER//FIER CHANNEL 26	22502	4
1172	MIXER//FIER CHANNEL 27	22502	0
1174	MIXER//FIER CHANNEL 28	22502	2
1176	MIXER//FIER CHANNEL 29	22502	6
1178	MIXER//FIER CHANNEL 30	22502	4
1180	MIXER//FIER CHANNEL 31	22502	0
1182	MIXER//FIER CHANNEL 32	22502	2
1184	MIXER//FIER CHANNEL 33	22502	6
1186	MIXER//FIER CHANNEL 34	22502	4
1188	MIXER//FIER CHANNEL 35	22502	0
1190	MIXER//FIER CHANNEL 36	22502	2
1192	MIXER//FIER CHANNEL 37	22502	6
1194	MIXER//FIER CHANNEL 38	22502	4
1196	MIXER//FIER CHANNEL 39	22502	0
1198	MIXER//FIER CHANNEL 40	22502	2
1200	MIXER//FIER CHANNEL 41	22502	6
1202	MIXER//FIER CHANNEL 42	22502	4
1204	MIXER//FIER CHANNEL 43	22502	0
1206	MIXER//FIER CHANNEL 44	22502	2
1208	MIXER//FIER CHANNEL 45	22502	6
1210	MIXER//FIER CHANNEL 46	22502	4
1212	MIXER//FIER CHANNEL 47	22502	0
1214	MIXER//FIER CHANNEL 48	22502	2
1216	MIXER//FIER CHANNEL 49	22502	6
1218	MIXER//FIER CHANNEL 50	22502	4
1220	MIXER//FIER CHANNEL 51	22502	0
1222	MIXER//FIER CHANNEL 52	22502	2
1224	MIXER//FIER CHANNEL 53	22502	6
1226	MIXER//FIER CHANNEL 54	22502	4
1228	MIXER//FIER CHANNEL 55	22502	0
1230	MIXER//FIER CHANNEL 56	22502	2
1232	MIXER//FIER CHANNEL 57	22502	6
1234	MIXER//FIER CHANNEL 58	22502	4
1236	MIXER//FIER CHANNEL 59	22502	0
1238	MIXER//FIER CHANNEL 60	22502	2
1240	MIXER//FIER CHANNEL 61	22502	6
1242	MIXER//FIER CHANNEL 62	22502	4
1244	MIXER//FIER CHANNEL 63	22502	0
1246	MIXER//FIER CHANNEL 64	22502	2
1248	MIXER//FIER CHANNEL 65	22502	6
1250	MIXER//FIER CHANNEL 66	22502	4
1252	MIXER//FIER CHANNEL 67	22502	0
1254	MIXER//FIER CHANNEL 68	22502	2
1256	MIXER//FIER CHANNEL 69	22502	6
1258	MIXER//FIER CHANNEL 70	22502	4
1260	MIXER//FIER CHANNEL 71	22502	0
1262	MIXER//FIER CHANNEL 72	22502	2
1264	MIXER//FIER CHANNEL 73	22502	6
1266	MIXER//FIER CHANNEL 74	22502	4
1268	MIXER//FIER CHANNEL 75	22502	0
1270	MIXER//FIER CHANNEL 76	22502	2
1272	MIXER//FIER CHANNEL 77	22502	6
1274	MIXER//FIER CHANNEL 78	22502	4
1276	MIXER//FIER CHANNEL 79	22502	0
1278	MIXER//FIER CHANNEL 80	22502	2
1280	MIXER//FIER CHANNEL 81	22502	6
1282	MIXER//FIER CHANNEL 82	22502	4
1284	MIXER//FIER CHANNEL 83	22502	0
1286	MIXER//FIER CHANNEL 84	22502	2
1288	MIXER//FIER CHANNEL 85	22502	6
1290	MIXER//FIER CHANNEL 86	22502	4
1292	MIXER//FIER CHANNEL 87	22502	0
1294	MIXER//FIER CHANNEL 88	22502	2
1296	MIXER//FIER CHANNEL 89	22502	6
1298	MIXER//FIER CHANNEL 90	22502	4
1300	MIXER//FIER CHANNEL 91	22502	0
1302	MIXER//FIER CHANNEL 92	22502	2
1304	MIXER//FIER CHANNEL 93	22502	6
1306	MIXER//FIER CHANNEL 94	22502	4
1308	MIXER//FIER CHANNEL 95	22502	0
1310	MIXER//FIER CHANNEL 96	22502	2
1312	MIXER//FIER CHANNEL 97	22502	6
1314	MIXER//FIER CHANNEL 98	22502	4
1316	MIXER//FIER CHANNEL 99	22502	0
1318	MIXER//FIER CHANNEL 100	22502	2
1320	MIXER//FIER CHANNEL 101	22502	6
1322	MIXER//FIER CHANNEL 102	22502	4
1324	MIXER//FIER CHANNEL 103	22502	0
1326	MIXER//FIER CHANNEL 104	22502	2
1328	MIXER//FIER CHANNEL 105	22502	6
1330	MIXER//FIER CHANNEL 106	22502	4
1332	MIXER//FIER CHANNEL 107	22502	0
1334	MIXER//FIER CHANNEL 108	22502	2
1336	MIXER//FIER CHANNEL 109	22502	6
1338	MIXER//FIER CHANNEL 110	22502	4
1340	MIXER//FIER CHANNEL 111	22502	0
1342	MIXER//FIER CHANNEL 112	22502	2
1344	MIXER//FIER CHANNEL 113	22502	6
1346	MIXER//FIER CHANNEL 114	22502	4
1348	MIXER//FIER CHANNEL 115	22502	0
1350	MIXER//FIER CHANNEL 116	22502	2
1352	MIXER//FIER CHANNEL 117	22502	6
1354	MIXER//FIER CHANNEL 118	22502	4
1356	MIXER//FIER CHANNEL 119	22502	0
1358	MIXER//FIER CHANNEL 120	22502	2
1360	MIXER//FIER CHANNEL 121	22502	6
1362	MIXER//FIER CHANNEL 122	22502	4
1364	MIXER//FIER CHANNEL 123	22502	0
1366	MIXER//FIER CHANNEL 124	22502	2
1368	MIXER//FIER CHANNEL 125	22502	6
1370	MIXER//FIER CHANNEL 126	22502	4
1372	MIXER//FIER CHANNEL 127	22502	0
1374	MIXER//FIER CHANNEL 128	22502	2
1376	MIXER//FIER CHANNEL 129	22502	6
1378	MIXER//FIER CHANNEL 130	22502	4
1380	MIXER//FIER CHANNEL 131	22502	0
1382	MIXER//FIER CHANNEL 132	22502	2
1384	MIXER//FIER CHANNEL 133	22502	6
1386	MIXER//FIER CHANNEL 134	22502	4
1388	MIXER//FIER CHANNEL 135	22502	0
1390	MIXER//FIER CHANNEL 136	22502	2
1392	MIXER//FIER CHANNEL 137	22502	6
1394	MIXER//FIER CHANNEL 138	22502	4
1396	MIXER//FIER CHANNEL 139	22502	0
1398	MIXER//FIER CHANNEL 140	22502	2
1400	MIXER//FIER CHANNEL 141	22502	6
1402	MIXER//FIER CHANNEL 142	22502	4
1404	MIXER//FIER CHANNEL 143	22502	0
1406	MIXER//FIER CHANNEL 144	22502	2
1408	MIXER//FIER CHANNEL 145	22502	6
1410	MIXER//FIER CHANNEL 146	22502	4
1412	MIXER//FIER CHANNEL 147	22502	0
1414	MIXER//FIER CHANNEL 148	22502	2
1416	MIXER//FIER CHANNEL 149	22502	6
1418	MIXER//FIER CHANNEL 150	22502	4
1420	MIXER//FIER CHANNEL 151	22502	0
1422	MIXER//FIER CHANNEL 152	22502	2
1424	MIXER//FIER CHANNEL 153	22502	6
1426	MIXER//FIER CHANNEL 154	22502	4
1428	MIXER//FIER CHANNEL 155	22502	0
1430	MIXER//FIER CHANNEL 156	22502	2
1432	MIXER//FIER CHANNEL 157	22502	6
1434	MIXER//FIER CHANNEL 158	22502	4
1436	MIXER//FIER CHANNEL 159	22502	0
1438	MIXER//FIER CHANNEL 160	22502	2
1440	MIXER//FIER CHANNEL 161	22502	6
1442	MIXER//FIER CHANNEL 162	22502	4
1444	MIXER//FIER CHANNEL 163	22502	0
1446	MIXER//FIER CHANNEL 164	22502	2
1448	MIXER//FIER CHANNEL 165	22502	6
1450	MIXER//FIER CHANNEL 166	22502	4
1452	MIXER//FIER CHANNEL 167	22502	0
1454	MIXER//FIER CHANNEL 168	22502	2
1456	MIXER//FIER CHANNEL 169	22502	6
1458	MIXER//FIER CHANNEL 170	22502	4
1460	MIXER//FIER CHANNEL 171	22502	0
1462	MIXER//FIER CHANNEL 172	22502	2
1464	MIXER//FIER CHANNEL 173	22502	6
1466	MIXER//FIER CHANNEL 174	22502	4
1468	MIXER//FIER CHANNEL 175	22502	0
1470	MIXER//FIER CHANNEL 176	22502	2
1472	MIXER//FIER CHANNEL 177	22502	6
1474	MIXER//FIER CHANNEL 178	22502	4
1476	MIXER//FIER CHANNEL 179	22502	0
1478	MIXER//FIER CHANNEL 180	22502	2
1480	MIXER//FIER CHANNEL 181	22502	6
1482	MIXER//FIER CHANNEL 182	22502	4
1484	MIXER//FIER CHANNEL 183	22502	0
1486	MIXER//FIER CHANNEL 184	22502	2
1488	MIXER//FIER CHANNEL 185	22502	6
1490	MIXER//FIER CHANNEL 186	22502	4
1492	MIXER//FIER CHANNEL 187	22502	0
1494	MIXER//FIER CHANNEL 188	22502	2
1496	MIXER//FIER CHANNEL 189	22502	6
1498	MIXER//FIER CHANNEL 190	22502	4
1500	MIXER//FIER CHANNEL 191	22502	0
1502	MIXER//FIER CHANNEL 192	22502	2
1504	MIXER//FIER CHANNEL 193	22502	6
1506	MIXER//FIER CHANNEL 194	22502	4
1508	MIXER//FIER CHANNEL 195	22502	0
1510	MIXER//FIER CHANNEL 196	22502	2
1512	MIXER//FIER CHANNEL 197	22502	6
1514	MIXER//FIER CHANNEL 198	22502	4
1516	MIXER//FIER CHANNEL 199	22502	0
1518	MIXER//FIER CHANNEL 200	22502	2

EOS A1-03 E1-EXE:43 NADIR MODE P1 10-NOV-98 02:58:02 SCAN NUMBER 32  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 665  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE NO  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 5.51

RADIOMETRIC DATA

BEAM POSITION 1

CH	DATA	CH	DATA
3	15993	8	16808
4	16705	9	16530
5	15992	10	20430
6	17360	11	16815
7	15778	12	18396
		13	18883
		14	20430
		15	16701

[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN 5897 CALC 5897 SA28 501 SA29 971  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

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416-7c  
JTD  
11/10/98

EOS A1-03 E1.EXE:43 NADIR MODE P1 10-NOV-98 09:59:38 SCAN NUMBER 44  
 [ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 665  
 [ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE NO  
 [ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 5.51

RADIOMETRIC DATA  
CHANNEL 3

BP	DATA	BP	DATA	BP	DATA	BP	DATA
1	15995	9	15994	17	15993	25	15996
2	15996	10	15999	18	15995	26	15996
3	15992	11	15999	19	16000	27	15996
4	15999	12	15991	20	15997	28	16001
5	15997	13	16000	21	15994	29	15998
6	15998	14	16000	22	15994	30	15994
7	15998	15	16000	23	15992	WC	0
8	16000	16	15993	24	15993		

[ 21 ] UP

ENGR OK POWER ON CHECKSUM IN 5371 CALC 5371 SA28 513 SA29 995  
 SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

4.6 - 7e  
 J. A. [Signature] 11/10/98

75/101



EOS A1-03 E1. EXE:43 NADIR MODE P1 10-NOV-98 09:59:54 SCAN NUMBER 46  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 665  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE NO  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 5.51

REFLECTOR POSITIONS

BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2
1	332	332	17	332	332
2	332	332	18	332	332
3	332	332	19	332	332
4	332	332	20	332	332
5	332	332	21	332	332
6	332	332	22	332	332
7	332	332	23	332	332
8	332	332	24	332	332
[ 21 ] UP					

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ENGR OK POWER ON CHECKSUM IN 505D CALC 505D SA28 515 SA29 999  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

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11/10/98  
JAD

4.6-7a

FOS		A1-03 E1 EXE:43		NADIR MODE		P1 10-NOV-98 10:00:02		SCAN NUMBER		47	
[ 5 ]	SCIENCE	DATA	ELEMENT	388	REFL 1	2ND LOOK POS	12	665			
[ 6 ]	CONTROL/STATUS	ELEMENT	1	1	ANTENNA	IN FULL SCAN MODE	NO				
[ 7 ]	ENGINEERING	ELEMENT	1	1	SIGNAL PROCESSOR	+5 VDC	5.51				

BP		LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2
1	16362	16362	16362	17	16362	16362	25	16362	16362
2	16362	16362	16362	18	16362	16362	26	16362	16362
3	16362	16362	16362	19	16362	16362	27	16362	16362
4	16362	16362	16362	20	16362	16362	28	16362	16362
5	16362	16362	16362	21	16362	16362	29	16362	16362
6	16362	16362	16362	22	16362	16362	30	16362	16362
7	16362	16362	16362	23	16362	16362	CC	16362	16362
8	16362	16362	16362	24	16362	16362	WC	16362	16362
[ 21 ]	UP	22	DOWN					OE	OE

ENGR OK	POWER	ON	CHECKSUM	2	IN	4CBB	CALC	3	FULL	SA28	516	SA29	1001
SELECT BUTTON 2		SCREEN ONLY			PRINT						1	RETURN	

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EOS [ 5 ] SCIENCE DATA ELEMENT 43 NADIR MODE 388 P1 10-NOV-98 10:02:02 SCAN NUMBER 62  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE NO 665  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 5.51 78/101

NO	SCIENCE DATA	TEMP C	TEMPERATURES 1 TO 16	DATA	TEMP C
1	SCAN MOTOR A1-1	17085	9 LO CHANNEL 5	21438	30.00
2	SCAN MOTOR A1-2	17968	10 LO CHANNEL 6	20631	27.52
3	FEED HORN A1-1	18609	11 LO CHANNEL 7	20816	28.57
4	FEED HORN A1-2	19509	12 LO CHANNEL 8	21877	30.70
5	REF MUX A1-1	20105	13 LO CHANNEL 15	21869	30.23
6	REF MUX A1-2	21172	14 PLLO #2	20213	27.36
7	LO CHANNEL 3	21938	15 PLLO #1	23124	33.01
8	LO CHANNEL 4	22297	16 S.P. (1553 INTF)	16080	32.36
[ 21 ]	UP	[ 22 ]	DOWN		

ENGR OK POWER ON CHECKSUM IN 4639 CALC 4639 SA28 531 SA29 1032  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL RETURN

416-72  
JAD  
11/10/98

4.6-7c

EOS 1 A1-03 E1 . EXE 43 NADIR MODE 388 P1 10-NOV-98 10:02:26 SCAN NUMBER 65  
[ 5 ] SCIENCE DATA ELEMENT 1 REFL 1 2ND LOOK POS 12 665

[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE NO

[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 5.51

79/101

NO	SCIENCE DATA	TEMP C	TEMPERATURES 17 TO 32	DATA	TEMP C
17	MIXER IF CH 3	29.65	25 IF AMP CH 11/14	21386	29.22
18	MIXER IF CH 4	29.67	26 IF AMP CH 9	21547	28.74
19	MIXER IF CH 5	29.51	27 IF AMP CH 10	21409	28.82
20	MIXER IF CH 6	27.73	28 IF AMP CH 11	20412	27.04
21	MIXER IF CH 7	28.06	29 DC/DC CONVERTER	23936	33.85
22	MIXER IF CH 8	29.76	30 IF AMP CH 13	20025	26.44
23	MIXER IF CH 9	26.86	31 IF AMP CH 14	20387	27.58
24	MIXER IF CH 10	30.25	32 IF AMP CH 12	20177	26.96
25	MIXER IF CH 11	22.1	DOWN		

ENGR OK POWER ON CHECKSUM IN 44F1 CALC 44F1 FULL SA28 534 SA29 1037  
SELECT BUTTON 2 SCREEN ONLY 2 PRINT 3 RETURN

4.6-7c

EOS A1-03 E1 EXE:43 NADIR MODE P1 10-NOV-98 10:02:34 SCAN NUMBER 66  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 665  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE NO  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 5.51

NO SCIENCE DATA TEMPERATURES 31 TO 46 DATA TEMP C

31 IF AMP CH 14	20391	27.59	39 A1-1 WARM LOAD	4 C	22319	21.66
32 IF AMP CH 12	20181	26.89	40 A1-1 WARM LOAD	4 C	22517	21.67
33 RE SHELF A1-1	21030	28.89	41 A1-2 WARM LOAD	1 C	23015	22.52
34 RE SHELF A1-2	21367	28.90	42 A1-2 WARM LOAD	2 C	23018	22.53
35 DETECTOR/PREAMP	19004	25.06	43 A1-2 WARM LOAD	3 C	23082	22.53
36 A1-1 WARM LOAD 1	22250	21.56	44 A1-2 WARM LOAD	4 C	23075	22.42
37 A1-1 WARM LOAD 2	22238	21.65	45 A1-2 WARM LOAD	4 C	23079	22.42
38 A1-1 WARM LOAD 3	22247	21.70	THERMAL REFERENCE		25264	
[ 21 ] UP						
[ 22 ] DOWN						

ENGR OK POWER ON CHECKSUM IN 446D CALC 446D SA28 535 SA29 1039  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

EOS A1-03 E1. EXE:43 NADIR MODE P1 10-NOV-98 10:03:38 SCAN NUMBER 74  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 665  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE NO  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 5.51

# ENGINEERING 1 TO 18

1 SIGNAL PROCESSOR 4.94 10 MIXER/IF AMPLIFIER A1-1 +10VDC 10.01  
2 SIGNAL PROCESSOR 15.06 11 MIXER/IF AMPLIFIER A1-2 +10VDC 10.01  
3 SIGNAL PROCESSOR -15.03 12 LOCAL OSCILLATOR-CH 6 +10 VDC 10.02  
4 ANTENNA DRIVE 4.93 13 SPARE 327.67 10.01  
5 ANTENNA DRIVE -15.06 14 LOCAL OSCILLATOR-CH 3 +10 VDC 10.06  
6 ANTENNA DRIVE -14.79 15 LOCAL OSCILLATOR-CH 4 +10 VDC 10.08  
7 PLO -15.22 16 LOCAL OSCILLATOR-CH 5 +10 VDC 10.02  
8 RECEIVER -17.91 17 LOCAL OSCILLATOR-CH 8 +10 VDC 10.05  
[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER ON CHECKSUM IN 40FB CALC 40FB SA28 543 SA29 1055  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

406-9 81/10/1 11/10/98

4,6-9

EOS A1-03 E1.EXE:43 NADIR MODE P1 10-NOV-98 10:03:55 SCAN NUMBER 76  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 665  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE NO  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 5.51

82/101

ENGINEERING 5 TO 22

5 ANTENNA DRIVE 14.94 14 SPARE OSCILLATOR-CH 3 +10 VDC 327.67  
6 ANTENNA DRIVE -15.06 15 LOCAL OSCILLATOR-CH 4 +10 VDC 10.06  
7 PLO -15.79 16 LOCAL OSCILLATOR-CH 5 +10 VDC 10.08  
8 PLO -15.22 17 LOCAL OSCILLATOR-CH 8 +10 VDC 10.05  
9 RECEIVER AMPLIFIER A1-1 +10VDC 10.01 19 LOCAL OSCILLATOR-CH 15 +15 VDC 14.99  
10 MIXER/IF AMPLIFIER A1-2 +10VDC 10.01 20 A1 QUIET BUS CURRENT 2261.2  
11 LOCAL OSCILLATOR-CH 6 +10 VDC 10.02 21 A1-1 NOISY POWER BUS CURRENT 0.2  
12 LOCAL OSCILLATOR-CH 7 +10 VDC 10.01 22 A1-2 NOISY POWER BUS CURRENT 0.1  
13 LOCAL OSCILLATOR-CH 22 ] DOWN  
14 ] UP

ENGR OK POWER ON CHECKSUM IN 3F97 CALC 3F97 SA28 545 SA29 1059  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

EOS 1 A1-03 E1 . EXE:43 NADIR MODE 388 P1 10-NOV-98 10:04:51.12 SCAN NUMBER 83  
[ 5 ] SCIENCE DATA ELEMENT 1 REFL 1 2ND LOOK POS 665  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE NO  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 5.51

83/101

# INSTRUMENT STATUS

1 ANTENNA IN FULL SCAN MODE	NO	8 RESET C&DH PROCESSOR	NO
2 ANTENNA IN WARM CAL MODE	NO	9 PLO REDUNDANCY	PLO#1
3 ANTENNA IN COLD CAL MODE	NO	10 BIT 10 SPARE	NO
4 ANTENNA IN NADIR MODE	YES	11 SCANNER 1 POWER	YES
5 COLD CAL. POSITION (LSB)	ZERO	12 SCANNER 2 POWER	YES
6 COLD CAL. POSITION (MSB)	ZERO	13 PLO#1 LOCK	YES
7 --- BIT 7 SPARE	NO	14 PLO#2 LOCK	YES
		15 ADC LATCHUP FLAG	YES

ENGR OK POWER ON CHECKSUM IN 3BE1 CALC 3BE1 SA28 551 SA29 1072  
SELECT BUTTON 2 SCREEN ONLY { 2 } PRINT { 3 } FULL { 1 } RETURN

4.6 -10 11/10/98  
*[Signature]*



EOS A1-03 E1 EXE:43 NADIR MODE P1 10-NOV-98 10:08:43 SCAN NUMBER 18  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 665  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE NO  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 5.51

84/101

NO	UNPOWERED THERMISTORS DATA	TEMP C
1	A1-1 SCAN MOTOR TEMPERATURE	20.93
2	A1-1 RF SHELF TEMPERATURE #1	26.21
3	A1-1 WARM LOAD TEMPERATURE	21.15
4	A1-2 SCAN MOTOR TEMPERATURE	22.58
5	A1-2 RF SHELF TEMPERATURE #1	22.54
6	A1-2 WARM LOAD TEMPERATURE	22.24
7	A1-1 RF SHELF TEMPERATURE #2	26.08
8	A1-2 RF SHELF TEMPERATURE	29.28

ENGR OK POWER ON CHECKSUM IN 29FF CALC 29FF SA28 580 SA29 1130  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

4.7-3  
JF [Signature]  
11/10/98

E1.EXE;43  
NO QTY  
1 1 PREVIOUS COMMAND NOT ACCEPTED  
2 10 RESOLVER ERROR FLAG SET

ERROR MESSAGES  
ERROR MESSAGE

MAX ERROR DATE TIME  
10-NOV-98 09:55:30  
10-NOV-98 10:10:19

85/101

4.8-6  
11/10/98  
*[Signature]*

EOS A1-03 E1 EXE:43 FULL SCAN MODE P1 3-NOV-98 03:34:00 SCAN NUMBER 4  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377

[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES

[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.94

86/101

NO	SCIENCE		TEMPERATURES		DATA	TEMP C	
	DATA	TEMP C	NO	1 TO 16		DATA	TEMP C
1	SCAN MOTOR A1-1	17046	9	LO CHANNEL 5	25065	37.00	
2	SCAN MOTOR A1-2	17220	10	LO CHANNEL 7	23502	33.31	
3	FEED HORN A1-1	18778	11	LO CHANNEL 8	24809	36.43	
4	FEED HORN A1-2	18490	12	LO CHANNEL 15	25850	38.43	
5	RF MUX A1-1	23278	13	LO CHANNEL 15	24413	35.13	
6	RF MUX A1-2	24084	14	PLLO #1	26724	39.92	
7	LO CHANNEL 3	25853	15	PLLO #2	22974	32.72	
8	LO CHANNEL 4	26284	16	S.P. (1553 INTF)	20991	41.86	
[ 21 ] UP							

ENGR OK POWER OFF CHECKSUM IN FFC7 CALC FFC7 SA28 678 SA29 1325  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

4.9-11  
J. A. [Signature]  
11/10/98

4,9-11

FOS A1-03 E1.EXE:43 FULL SCAN MODE 4  
[ 5 ] SCIENCE DATA ELEMENT 388  
[ 6 ] CONTROL/STATUS ELEMENT 1  
[ 7 ] ENGINEERING ELEMENT 1

P1 3-NOV-98 03:34:00 SCAN NUMBER 4  
REFL 1 2ND LOOK POS 12 32377  
ANTENNA IN FULL SCAN MODE YES  
SIGNAL PROCESSOR +5 VDC 4.94

87/101

NO	DATA	SCIENCE TEMP C	TEMPERATURES 17 TO 32	DATA	TEMP C
17	MIXER	36.36	25 IF AMP CH 11/14	24157	34.96
18	MIXER	36.34	26 IF AMP CH 9	24347	35.23
19	MIXER	35.56	27 IF AMP CH 10	24199	35.21
20	MIXER	34.42	28 IF AMP CH 11	23933	33.83
21	MIXER	34.34	29 DC/DC CONVERTER	25812	37.17
22	MIXER	36.79	30 IF AMP CH 13	23535	33.17
23	MIXER	32.30	31 IF AMP CH 14	23902	34.33
24	MIXER	37.30	32 IF AMP CH 12	23666	33.66
[ 21 ]	UP				
[ 22 ]	DOWN				

ENGR OK POWER OFF CHECKSUM IN FFC7 CALC FFC7 SA28 678 SA29 1325  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL RETURN

4.9-11

EOS [ 5 ] A1-03 E1.EXE:43 FULL SCAN MODE P1 3-NOV-98 03:34:08 SCAN NUMBER 5  
[ 6 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 7 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 8 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

NO NO SCIENCE DATA TEMPERATURES 31 TO 46 DATA TEMP C

31 IF AMP CH 14	23901	34.32	39 A1-1 WARM LOAD	4 23100	23.19
32 IF AMP CH 12	23665	33.66	40 A1-1 WARM LOAD	4 23311	23.22
33 RE SHELF A1-1	24077	34.74	41 A1-2 WARM LOAD	1 23304	22.57
34 RE SHELF A1-2	24444	34.84	42 A1-2 WARM LOAD	1 23096	23.59
35 DETECTOR/PREAMP	22688	32.07	43 A1-2 WARM LOAD	3 23104	22.57
36 A1-1 WARM LOAD 1	23040	23.10	44 A1-2 WARM LOAD	4 23101	22.47
37 A1-1 WARM LOAD 2	23536	23.21	45 A1-2 WARM LOAD	4 23120	22.60
38 A1-1 WARM LOAD 3	23024	23.22	THERMAL REFERENCE	25281	
[ 21 ] UP		[ 22 ] DOWN			

ENGR OK POWER OFF CHECKSUM IN FFC7 CAL C FFC7 SA28 678 SA29 1325  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

88/101

EOS A1-03 E1.EXE:43 FULL SCAN MODE P1 4-NOV-98 06:36:28 SCAN NUMBER 4  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

89/101

ENGINEERING 1 TO 18

1 SIGNAL PROCESSOR 4.95 10 MIXER/IF AMPLIFIER A1-1 +10VDC 10.01  
2 SIGNAL PROCESSOR 15.03 11 MIXER/IF AMPLIFIER A1-2 +10VDC 10.01  
3 SIGNAL PROCESSOR -15.03 12 LOCAL OSCILLATOR-CH 6 +10 VDC 10.02  
4 ANTENNA DRIVE 4.94 13 LOCAL OSCILLATOR-CH 7 +10 VDC 10.00  
5 ANTENNA DRIVE 14.94 14 SPARE 327.67  
6 ANTENNA DRIVE -15.07 15 LOCAL OSCILLATOR-CH 3 +10 VDC 10.06  
7 PLO -14.80 16 LOCAL OSCILLATOR-CH 4 +10 VDC 10.08  
8 PLO -15.23 17 LOCAL OSCILLATOR-CH 5 +10 VDC 10.02  
9 RECEIVER 7.92 18 LOCAL OSCILLATOR-CH 8 +10 VDC 10.04  
[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER OFF CHECKSUM IN FFC7 CALC FFC7 SA28 678 SA29 1325  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

4.10-10  
JAD  
11/10/98

4/10-10

EOS 1 A1-03 E1.EXE:43 FULL SCAN MODE P1 4-NOV-98 06:36:36 SCAN NUMBER 5  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

90/101

ENGINEERING 5 TO 22

5 ANTENNA DRIVE 14.94 14 SPARE OSCILLATOR-CH 3 +10 VDC 327.67  
6 ANTENNA DRIVE 15.06 15 LOCAL OSCILLATOR-CH 4 +10 VDC 10.06  
7 PLO 15.80 16 LOCAL OSCILLATOR-CH 5 +10 VDC 10.08  
8 PLO 15.23 17 LOCAL OSCILLATOR-CH 8 +10 VDC 10.04  
9 RECEIVER 7.92 18 LOCAL OSCILLATOR-CH 5 +15 VDC 14.99  
10 MIXER/IF AMPLIFIER A1-1 10.01 19 A1 QUIET BUS CURRENT 2275.9  
11 MIXER/IF AMPLIFIER A1-2 10.01 20 A1-1 NOISY POWER BUS CURRENT 54.9  
12 LOCAL OSCILLATOR-CH 6 +10 VDC 10.00 21 A1-2 NOISY POWER BUS CURRENT 50.9  
13 LOCAL OSCILLATOR-CH 7 +10 VDC 10.00 22 DOWN

ENGR OK POWER OFF CHECKSUM IN FFC7 CALC FFC7 SA28 678 SA29 1325  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

EOS 1 A1-03 E1.EXE:43 FULL SCAN MODE P1 6-NOV-98 11:34:30 SCAN NUMBER 4  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

WARM CALIBRATE  
CH DATA CH DATA CH DATA  
3 15887 7 15520 10 16462 13 17881  
3 15886 7 15518 10 16472 13 17865  
4 16316 8 16532 11 17437 14 19009  
4 16320 8 16531 11 17442 14 19029  
5 15842 9 16422 12 17735 15 16347  
5 15843 9 16422 12 17731 15 16349  
6 17188  
6 17191

ENGR OK POWER OFF CHECKSUM IN FCC7 CALC FCC7 SA28 678 SA29 1325  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

4.11.1.2 -10

*[Signature]*  
11/10/98

91/101



EOS A1-03 E1 . EXE. 43 FULL SCAN MODE P1 6-NOV-98 11:38:22 SCAN NUMBER 33  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.94

NO SCIENCE TEMPERATURES 14 TO 29 DATA TEMP C  
14 PLLO #2 26934 40.38 22 MIXER IF CH 8 25158 36.80  
15 PLLO #1 23131 33.02 23 MIXER IF CH 9/14 23400 33.67  
16 SLP (1553 INTF) 21263 42.78 24 MIXER IF CH 15/14 25593 37.95  
17 MIXER IF CH 3 25089 36.76 25 IF AMP CH 11/14 24429 37.49  
18 MIXER IF CH 4 25317 35.91 26 IF AMP CH 10 24618 35.76  
19 MIXER IF CH 5 24672 35.21 27 IF AMP CH 11 24468 35.75  
20 MIXER IF CH 6 24314 35.18 28 IF AMP CH 11 24402 34.75  
21 MIXER IF CH 7 24006 [ 22 ] DOWN 29 DC/DC CONVERTER 25595 37.08

ENGR OK POWER OFF CHECKSUM IN FCC7 CALC FCC7 SA28 678 SA29 1325  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL RETURN

92/101

4.11.1.2-13  
J. J. Dan  
11/10/98

4-11-12-13

93/101

EOS	A1-03	E1-EXE:43	FULL SCAN MODE	P1	6-NOV-98	11:38:38	SCAN NUMBER	35
[ 5 ]	SCIENCE	DATA	ELEMENT 388	REFL	1	2ND LOOK POS	12	32377
[ 6 ]	CONTROL/STATUS	ELEMENT	1	ANTENNA	IN FULL	SCAN MODE	YES	
[ 7 ]	ENGINEERING	ELEMENT	1	SIGNAL PROCESSOR	+5	VDC	4.95	

NO	SCIENCE DATA	TEMP C	TEMPERATURES 30 TO 45 NO	DATA	TEMP C
30	IF AMP CH 13	34.08	38 A1-1 WARM LOAD	3	24006
31	IF AMP CH 14	35.23	39 A1-1 WARM LOAD	4	24093
32	IF AMP CH 12	34.59	40 A1-1 WARM LOAD	4	24294
33	RF SHELLE A1-1	35.15	41 A1-2 WARM LOAD	1	23896
34	RF SHELLE A1-2	35.20	42 A1-2 WARM LOAD	2	23948
35	DETECTOR/PREAMP	33.51	43 A1-2 WARM LOAD	3	23956
36	A1-1 WARM LOAD 1	25.03	44 A1-2 WARM LOAD	4	23953
37	A1-1 WARM LOAD 2	25.15	45 A1-2 WARM LOAD	C	23973
[ 21 ]	UP				
[ 22 ]	DOWN				

ENGR OK	POWER	OFF	CHECKSUM	IN FFC7	CALC	FFC7	SA28	678	SA29	1325
SELECT BUTTON 2		SCREEN ONLY	[ 2 ]	PRINT	[ 3 ]	FULL		[ 1 ]	RETURN	

EOS A1-03 E1. EXE:43 FULL SCAN MODE P1 6-NOV-98 11:38:46 SCAN NUMBER 36  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.95

NO SCIENCE DATA TEMPERATURES 31 TO 46 DATA TEMP C  
31 IF AMP CH 14 24369 35.24 39 A1-1 WARM LOAD 4 C 1 24092 25.13  
32 IF AMP CH 12 24141 34.59 40 A1-1 WARM LOAD 4 C 1 24294 25.16  
33 RE SHELF A1-1 24292 35.16 41 A1-2 WARM LOAD 4 C 1 24896 24.25  
34 RE SHELF A1-2 24629 35.20 42 A1-2 WARM LOAD 4 C 1 23948 24.26  
35 DETECTOR/PREAMP 23439 33.51 43 A1-2 WARM LOAD 4 C 1 23957 24.24  
36 A1-1 WARM LOAD 1 24021 25.03 44 A1-2 WARM LOAD 4 C 1 23949 24.13  
37 A1-1 WARM LOAD 2 24523 25.15 45 A1-2 WARM LOAD 4 C 1 23972 24.27  
38 A1-1 WARM LOAD 3 24007 25.15 THERMAL REFERENCE 25282  
[ 21 ] UP [ 22 ] DOWN

ENGR OK POWER OFF CHECKSUM IN FCC7 CALC FCC7 SA28 678 SA29 1325  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL RETURN [ 1 ]

(also)  
4-11.1.2-13  
11/10/98  
JH

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EOS 1 A1-03 E1.EXE:43 FULL SCAN MODE P1 6-NOV-98 11:40:14 SCAN NUMBER 47
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.94

ENGINEERING 1 TO 18
1 SIGNAL PROCESSOR 4.94 10 MIXER/IF AMPLIFIER A1-1 +10VDC 10.01
2 SIGNAL PROCESSOR 15.05 11 MIXER/IF AMPLIFIER A1-2 +10VDC 10.01
3 SIGNAL PROCESSOR -15.03 12 LOCAL OSCILLATOR-CH 6 +10 VDC 10.02
4 ANTENNA DRIVE 4.94 13 LOCAL OSCILLATOR-CH 7 +10 VDC 10.00
5 ANTENNA DRIVE 14.94 14 SPARE 327.67
6 ANTENNA DRIVE -15.06 15 LOCAL OSCILLATOR-CH 3 +10 VDC 10.06
7 PLO -15.79 16 LOCAL OSCILLATOR-CH 4 +10 VDC 10.07
8 PLO -15.24 17 LOCAL OSCILLATOR-CH 5 +10 VDC 10.02
9 RECEIVER -17.92 18 LOCAL OSCILLATOR-CH 8 +10 VDC 10.04
[ 21 ] UP DOWN

ENGR OK POWER OFF CHECKSUM IN FEC7 CALC FEC7 SA28 678 SA29 1325
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

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95/101

4.11.12-18 11/10/98  
J. Allen

EOS 5 ] A1-03 E1.EXE:43 FULL SCAN MODE P1 6-NOV-98 11:40:22 SCAN NUMBER 48  
[ 5 ] SCIENCE DATA ELEMENT 388 REFL 1 2ND LOOK POS 12 32377  
[ 6 ] CONTROL/STATUS ELEMENT 1 ANTENNA IN FULL SCAN MODE YES  
[ 7 ] ENGINEERING ELEMENT 1 SIGNAL PROCESSOR +5 VDC 4.94

ENGINEERING 5 TO 22

5 ANTENNA DRIVE 14.94 14 SPARE OSCILLATOR-CH 3 +10 VDC 327.67  
6 ANTENNA DRIVE 15.06 15 LOCAL OSCILLATOR-CH 4 +10 VDC 10.06  
7 PLL 15.79 16 LOCAL OSCILLATOR-CH 5 +10 VDC 10.08  
8 PLL 15.24 17 LOCAL OSCILLATOR-CH 8 +10 VDC 10.02  
9 RECEIVER 17.92 18 LOCAL OSCILLATOR-CH 15 +15 VDC 14.99  
10 MIXER/IF AMPLIFIER A1-1 +10VDC 10.01 20 A1 QUIET BUS CURRENT 2278.2  
11 MIXER/IF AMPLIFIER A1-2 +10VDC 10.01 21 A1-1 NOISY POWER BUS CURRENT 62.6  
12 LOCAL OSCILLATOR-CH 6 +10 VDC 10.02 22 A1-2 NOISY POWER BUS CURRENT 58.0  
13 LOCAL OSCILLATOR-CH 7 +10 VDC 10.00 22 ] DOWN

ENGR OK POWER OFF CHECKSUM IN FFC7 CALC FFC7 SA28 678 SA29 1325  
SELECT BUTTON 2 SCREEN ONLY [ 2 ] PRINT [ 3 ] FULL [ 1 ] RETURN

4,11,12-18

96/101

A1 IN FLIGHT WARM PATH CALIBRATION  
E1 EXE 143 6-NOV-98  
INST TEMP1 35.19 INST TEMP2  
SCENE TEMP1 297.26 COLD TEMP1  
SCENE TEMP2 297.56 COLD TEMP2

13:10:38  
35.23  
83.98  
83.95

WARM TEMP1 298.33  
WARM TEMP2 297.43

TC2P

CHANNEL  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15

TW2P1 1  
-0.1101  
-0.1101  
-0.1101  
0.2228  
-0.0246  
0.2217  
0.2233  
0.2267  
0.2247  
0.2204

97/101

1 2 1 PRINT  
SELECT BUTTON 2

[ 1 ] RETURN

4.11.1.2 - 21 "Formal Test 9.1"  
11/10/98

*[Signature]*

A1 IN FLIGHT WARM PATH CALIBRATION

E1 EXE:40 09:57:33  
INST TEMP1 35:34  
SCENE TEMP1 83:80  
SCENE TEMP2 83:91  
WARM TEMP1 297.73  
WARM TEMP2 296.84

5-NOV-98  
INST TEMP2  
COLD TEMP1  
COLD TEMP2

CHANNEL TC2P

3 TW2P1  
4 828:074  
5 828:671  
6 828:272  
7 814:946  
8 814:879  
9 827:985  
10 814:185  
11 814:188  
12 814:248  
13 815:434  
14 815:808  
15 814:834

98 /101

[ 2 ] PRINT  
[ 1 ] RETURN  
SELECT BUTTON 2

4.11.3.2-7 (Cycle 1)





# A1 IN FLIGHT WARM PATH CALIBRATION

E1 EXEC:40 5-NOV-98 10:26:58  
INST TEMP1 34.52 35.33  
SCENE TEMP1 999.00 83.82  
SCENE TEMP2 999.00 83.91

WARM TEMP1 297.78  
WARM TEMP2 296.90

TC2P

CHANNEL TW2P1  
3 828.538  
4 828.648  
5 828.032  
6 828.083  
7 828.085  
8 828.328  
9 828.946  
10 828.427  
11 828.820  
12 828.116  
13 828.160  
14 828.163  
15 828.932

100 / 101

[ 1 ] RETURN

[ 2 ] PRINT  
SELECT BUTTON 2

4-11-3.2-7 (Cycle 6)

*J. Allen* 11/30/98

A1 DELTA T AND CALIBRATION ACCURACY		A1 03 CYCLE1 SUB1		T300 B15 A40PO.DAT	
EL EXE:40	5-NOV-98	33.10	18:30:48	33.56	33.57
INST TEMP1	33.10	00	00	33.56	33.57
SCENE MIN TEMP1	999.00	00	00	TEMP1	297.86
SCENE AVG TEMP1	999.00	00	00	TEMP1	297.96
SCENE MAX TEMP1	999.00	00	00	TEMP1	298.00
CHANNEL	DELTA	AC	RC	TEMP2	999.00
3	0.22357	719.635	0.171	TEMP2	999.00
4	0.17338	809.506	0.076	TEMP2	999.00
5	0.17338	719.549	0.120	TEMP2	999.00
6	0.23155	807.705	0.204	TEMP2	999.00
7	0.23155	717.356	0.268	TEMP2	999.00
8	0.23155	809.356	0.134	TEMP2	999.00
9	0.23155	717.356	0.205	TEMP2	999.00
10	0.23155	807.356	0.172	TEMP2	999.00
11	0.23155	717.356	0.370	TEMP2	999.00
12	0.23155	807.356	0.366	TEMP2	999.00
13	0.23155	717.356	0.692	TEMP2	999.00
14	0.23155	807.356	0.692	TEMP2	999.00
15	0.23155	717.356	0.692	TEMP2	999.00
LEAST SQ N		7			

1 2 1 PRINT  
SELECT BUTTON 2

[ 1 ] RETURN


101/101

4.11.4.2 8  
Jurnal 11/30/98  
11/30/98

NFSD 89-0 (June 30, 1989)

FORMS

53-55

 <p><b>NASA</b> National Aeronautics and Space Administration</p>				<p>Report Documentation Page</p>			
1. Report No. ---		2. Government Accession No. ---		3. Recipient's Catalog No. ---			
4. Title and Subtitle  Integrated Advanced Microwave Sounding Unit-A (AMSU-A), EOS Software Test Report				5. Report Date 30 November 1998			
				6. Performing Organization Code ---			
7. Author(s)  A. Cisneros				8. Performing Organization Report No. 11344			
9. Performing Organization Name and Address Aerojet 1100 W. Hollyvale Azusa, CA 91702				10. Work Unit No. ---			
				11. Contract or Grant No. NAS 5-32314			
12. Sponsoring Agency Name and Address NASA Goddard Space Flight Center Greenbelt, Maryland 20771				13. Type of Report and Period Covered Final			
				14. Sponsoring Agency Code ---			
15. Supplementary Notes  ---							
16. ABSTRACT (Maximum 200 words)  This is the EOS Software Test Report for the Integrated Advanced Microwave Sounding Unit-A (AMSU-A).							
17. Key Words (Suggested by Author(s))  EOS Microwave System			18. Distribution Statement  Unclassified --- Unlimited				
19. Security Classif. (of this report)  Unclassified		20. Security Classif. (of this page)  Unclassified		21. No. of pages  ---			
				22. Price  ---			

NASA FORM 1626 OCT 86

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The last page of a report facing the third cover is the Report Documentation Page, RDP. Information presented on this page is used in announcing and cataloging reports as well as preparing the cover and title page. Thus, it is important that the information be correct. Instructions for filling in each block of the form are as follows:

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TITLE <b>EOS Software Test Report</b> <b>Software Test Report</b>			DOCUMENT NO. <b>Report 11344</b> <b>30 November 1998</b>	
INPUT FROM: <b>A. Cisneros</b>	DATE	CDRL: <b>217</b>	SPECIFICATION ENGINEER: <i>JMW</i>	DATE <b>98-11-30</b>
CHECKED BY: <i>Paul A. Shumel</i>	DATE <b>12-1-98</b>	JOB NUMBER: DATE		
APPROVED SIGNATURES			DEPT. NO.	DATE
Product Team Leader (L. Paliwoda) <i>L. Paliwoda</i>			7888	12-1-98
Systems Engineer (R. Platt) <i>P. R. Patel</i>			8311	12/2/98
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By my signature, I certify the above document has been reviewed by me and concurs with the technical requirements related to my area of responsibility.				
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<b>4. TITLE AND SUBTITLE</b> Earth Observing System (EOS) Advanced Microwave Sounding Unit-A1 (EOS/AMSU-A) EOS Software Test Report			<b>5. FUNDING NUMBERS</b>  NAS5-32314	
<b>6. AUTHOR(S)</b> A. Cisneros				
<b>7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS (ES)</b> Aerojet 1100 West Hollyvale St. Azusa, CA 91702			<b>8. PERFORMING ORGANIZATION REPORT NUMBER</b>  11344	
<b>9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS (ES)</b>  National Aeronautics and Space Administration Washington, DC 20546-0001			<b>10. SPONSORING / MONITORING AGENCY REPORT NUMBER</b>  CR-209212	
<b>11. SUPPLEMENTARY NOTES</b>				
<b>12a. DISTRIBUTION / AVAILABILITY STATEMENT</b> Unclassified-Unlimited Subject Category: 61 Report available from the NASA Center for AeroSpace Information, 7121 Standard Drive, Hanover, MD 21076-1320. (301) 621-0390.			<b>12b. DISTRIBUTION CODE</b>	
<b>13. ABSTRACT (Maximum 200 words)</b>  This is the <i>Software Test Report</i> for the software to be used in the Earth Observing System (EOS) Advanced Microwave Sounding Unit-A1 (AMSU-A1) instrument.				
<b>14. SUBJECT TERMS</b> EOS; microwave system.			<b>15. NUMBER OF PAGES</b> 110	
			<b>16. PRICE CODE</b>	
<b>17. SECURITY CLASSIFICATION OF REPORT</b> Unclassified	<b>18. SECURITY CLASSIFICATION OF THIS PAGE</b> Unclassified	<b>19. SECURITY CLASSIFICATION OF ABSTRACT</b> Unclassified	<b>20. LIMITATION OF ABSTRACT</b> UL	

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PART 53 - FORMS

53.301-298

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4. TITLE AND SUBTITLE Integrated Advanced Microwave Sounding Unit-A (AMSU-A), EOS Software Test Report			5. FUNDING NUMBERS  NAS 5-32314	
6. AUTHOR(S) A. Cisneros				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Aerojet 1100 W. Hollyvale Azusa, CA 91702			8. PERFORMING ORGANIZATION REPORT NUMBER 11344 30 November 1998	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) NASA Goddard Space Flight Center Greenbelt, Maryland 20771			10. SPONSORING/MONITORING AGENCY REPORT NUMBER ---	
11. SUPPLEMENTARY NOTES ---				
12a. DISTRIBUTION/AVAILABILITY STATEMENT ---			12b. DISTRIBUTION CODE ---	
13. ABSTRACT (Maximum 200 words)  This is the EOS Software Test Report for the Integrated Advanced Microwave Sounding Unit-A (AMSU-A).				
14. SUBJECT TERMS  EOS Microwave System			15. NUMBER OF PAGES	
			16. PRICE CODE ---	
17. SECURITY CLASSIFICATION OF REPORT  Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE  Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT  Unclassified	20. LIMITATION OF ABSTRACT  SAR	

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